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# PHARMA PRO & PACK

An official Publication of Indian Pharma Machinery Manufacturers' Association (IPMMA)



# Exhibition Catalogue

AN OFFICIAL PUBLICATION OF



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## PHARMA PRO & PACK EXPO 2014

Mumbai Exhibition Center, Mumbai INDIA  
May 21-22-23, 2014  
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## PharmaLab expo 2014

mumbai exhibition center  
mumbai india - may 21-23, 2014

[www.PharmaLabExpo.com](http://www.PharmaLabExpo.com)



Rapid Mixer Granulator



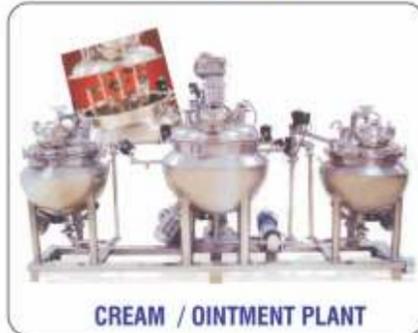
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I am exhilarated to know that is Pharmaceuticals Export Promotion council of India (Pharmexcil) is organizing iPHEX/PHARMA Pro & Pack Expo 2014. Association of Pharmaceutical Producers of Nepal (APPON) takes pride to be a part in jointly convening the Expo.

Healthcare is a basic need and pharmaceutical is an integral part of it. Pharmaceutical is a knowledge based industry ever requiring excellence for competitiveness. The drive for excellence is the hallmark of pharmaceutical industry combined with capacity building elements which will enable the pharmaceutical industry to grow with buoyancy and meet the unmet needs. This requires multifaceted vision and coherence of multidisciplinary approaches and I believe that iPHEX/PHARMA Pro & Pack Expo 2014 brings together under one roof the entire requirement for the pharmaceutical development globally. I assure you this year as well; Nepal will take in its remarkable number of participants

Wishing all the success of iPHEX/ Pharma Pro & Pack Expo 2014.

.....  
Umesh Lal Shrestha  
President



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- Jaiechi - China

**Booth: B-25, Hall - 5**

**AIRTECH SYSTEMS (INDIA) PVT. LTD.**

Plot No. 5 & 6, Mohan Bacchu & Sons Industrial Estate,  
Nandore Village, Palghar - East,  
MUMBAI 401404 INDIA

TEL: +91.22.2852.2270

EMAIL:

sumeet@airtechsys.in

URL:

www.airtechsys.in

Airtech is a customized air solutions provider. Since its inception in 1992, Airtech has cultivated an in-depth understanding and expertise of executing turnkey HVAC & clean room projects. The firm has to its credit many successful project executions spread across an array of Industrial, Commercial, Municipal, Healthcare, Governmental and Non-Profit sectors.

The groups client centric sensibilities enable it to dole out tailor-made solutions that cater to specific needs. This coupled with its ability to work in co-ordination with clients, translates into Airtech being a preferred solutions provider.

Airtech group has its own state-of-the-art manufacturing facilities which feature world-class manufacturing equipment to ensure consistency in quality and reliability. Ever in favor of keeping pace with new developments and technological advancements, it has recently also expanded its R&D base.

In an industry that is increasingly demanding precision, excellence and expertise, Airtech deems it a professional responsibility to live up to the challenge and cater to varied needs while meeting international quality standards.

**Booth: D-24, Hall - 5**

**AL-CAN EXPORTS PVT. LTD.**

Al-Can Exports Pvt. Ltd.  
Sheetal Indl. Estate, Kashmirira Road,  
Bhayander East,  
MUMBAI 401 105 INDIA

TEL: +91.22.2819.3122

EMAIL:

marketing@alcanexports.com

URL: www.al-can.com

Al-Can Exports Pvt. Ltd. started its operation in Mumbai, in the year 1985. Today it is an ISO 9001 : 2000 Accredited company and one of the leading manufacturer, supplier and exporter of Aluminium Packaging Products – Aluminium Bottles and Aluminium containers ranging from 5 ml to 25 Liters and exporting to more than 35 countries. These Aluminium Bottles are widely used in Packing Essential Oil, Perfumery, Flavor and Fragrance, Pharmaceutical, Agrochemical, Cosmetic, Beverage, Wine and Liquor industry. Aluminium Bottles manufactured by us are UN Approved and made from 99.5% Pure Aluminium

**Booth: G-25, Hall - 1**

**ALLIED**

Unit 17, Param Industrial Estate, Naikpada, Walive, Vasai-E, Dist. Thane  
MUMBAI 401 208 INDIA

TEL: +91.250.645.1697 / 645.4301

EMAIL: admin@alliedworld.in

URL: www.alliedworld.in

ALLIED is a leader in the manufacturing of precision engineered Tablet compressed Tool Storage System also known as Punch & Die Storage Cabinet. In addition, we also offer customized range of Non Standard Punch and Die Cabinets.

Since the inception, we are catering to the requirements of pharma industries through our impeccable range of pharmaceutical equipment.

We offer:

- Punch Die & Storage Cabinet (PDC) - Vertical PDC, Horizontal PDC & Specialized in Non Standard PDC's
- Tool Room Validation
- Transportation Trolley
- Punch Inspection Kit
- Punch Polishing Kit

Clean Room Furniture – IPC Bins, Pressure Vessels, Conveyors, Crossover Bench, Racks, Ladders, Sink Table, Powder Samplers, Dustbins, Dining Tables, SOP folders, SOP Stand, Tool Box, Tables, Chairs, Stools,

- Containers, Hammers, Screw Drivers, Scoops, Spoons, Spatulas etc.

**Booth: C-7 + C-8, Hall - 5**

**ALM SYSTEMS**

G 74 MAHINDRA PARK LBS MARG GHATKOPAR WEST

MUMBAI 400086 INDIA, TEL: +91.97734.71140

EMAIL: info@almssystems.in

URL: www.almssystems.in

ALM SYSTEMS is Basically a Importers of Various Measuring Instruments For Pharma / Cleanroom/ HVAC / BAS/ BMS Instrumentation

We deal in Various Process instruments for Pharma Machinery / LAF / HVAC / Cleanroom and Lots of Industrial Process area including Flame proof / Explosion Proof Instruments like:

- DP Transmitter
- RH Temperature Transmitter
- Air velocity Transmitter
- Level Switches
- Flow Switches
- Anemometer Maximum Supplies are with Calibration

**Booth: G-07, Hall - 1**

**AMBALICA ENGINEERS**

62/6/B PHASE 1, OPP MANEKCHOWK CO OP BANK, GIDC, VATVA

AHMEDABAD 382 445 INDIA

TEL: +91.79.2589.6185

EMAIL: mevadamm@rediffmail.com,

URL: www.ambica.com

Ambalica Engineers, a fast growing company in the field of pharmaceutical machinery which was established in 1992 at Ahmedabad

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Mob. +91 9825073114 / 9227219462  
E-mail :- chemietron@hotmail.com, cctpl@yahoo.com  
Visit us at :- www.chemietron.com / www.hygienofilters.com

And in a very short span of time company become a major manufacture of pharmaceutical machines. Company has sold their machines to the no. of major player in India. like, Novartis India Limited., Wockhardt Limited, Indovax, Relax Pharmaceutical, Syngenta India Limited, Torrent Pharmaceuticals, Dabar India Limited, Air Pack, as well as established good market in export selling their machines to Russia, Africa, Bangladesh, Nepal etc.

Products:

- Inspection Machine
- Automatic Rotary Six Head Ropp Cap Sealing Machine
- Automatic Eight Head Motion Filling Machine
- Automatic Four Head Vial Filling Full / Half Vacuum Type Stopping Machine
- High Speed Vial Line
- Automatic Ampoule Line
- Liquid Vial Line
- Liquid / Bottle Line
- Four Head Liquid Vial Filling & Vacuum Type Full / Half stoppering Machine

**Booth: F-6C, Hall - 1**  
**AMBICA ENGINEERING WORKS**

Plot No. 1803-1804,  
Phase III, G.I.D.C. Vatva,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2589.4796  
EMAIL: info@ambicashree.com  
URL: www.ambicashree.com

Ambica Engineering Works offers broad range of pharmaceutical machinery like:

- Linear Vial / Bottle Washing Machine
- Linear Vial Washing Machine with Grippers
- Rotary Vial / Ampoule Washing Machine with Grippers
- Automatic High Speed Injectable Powder Filling Machine
- Automatic High Speed Injectable Liquid Filling Machine
- Automatic High Speed Aluminum Cap Sealing Machine
- Automatic Vial Optical Inspection Machine
- Automatic High Speed External Washing Machine
- Automatic High Speed Labelling Machine
- Packing conveyors and turntables

**Booth: C-27, Hall - 5**  
**AMBICA PHARMA MACHINES PVT. LTD.**

PLOT NO.1, PHASE -II, GIDC - VATVA,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.4026.9800  
EMAIL: ambica@ambica.co.in  
URL: www.ambica.co.in

We, AMBICA® Pharma Machines Pvt Ltd. is one of the leading manufacturers of Pharmaceutical Packaging Machines in India.

Our Factory equipped with modern plant and machinery for indigenous manufacturing for its machinery. The company believes that customer satisfaction is the core element of each business transaction, which is why it follows GMP and has expanded its plant and machinery in such a way that the end user gets more precise output and trouble free operation from the company's machines.

Our company now offers complete line of Pharmaceuticals Packaging Machineries, such as Injectable Powder Filling Lines, Liquid Filling Lines and Dry Syrup Powder Filling Lines, Each line consisting Container Washing, Filling, Sealing, Inspection, Wet Glue Labeling, Sticker Labeling Machines, etc.

PRODUCT RANGES

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- DRY SYRUP POWDER & LIQUID ORAL
- ALSO AMINO ACID COMPLETE LINE CONSISTING WASHING – FILLING – STOPPERING – CAPPING – INSPECTION

**Booth: B-9/A, Hall - 5**  
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RAMDEV NAGAR, VIDYAVIHAR - WEST,  
MUMBAI 400 086 INDIA  
TEL: +91.22.2852.0116  
EMAIL: aamulya@vsnl.net  
URL: www.amulyamachines.com

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AUTOMATIC LIQUID / SYRUP / GEL / CREAMS / PASTE / LOTION / OINTMENT MANUFACTURING PLANTS, SPARKLER FILTER PRESS, BASKET FILTERS, COLLOID MILL, TRANSFER PUMPS ETC WITH INTERCONNECTING LINES ON TURN KEY BASIS.

**Booth: A-6, Hall - 5**  
**ANCHOR MARK PVT. LTD.**

PLOT NO 101-A KANDIVLI COOP INDL EST LTD  
CHARKOP, KANDIVLI WEST  
MUMBAI 400 067 INDIA  
TEL: +91.22.4097.2000  
EMAIL: nhwarrier@anchormark.com, sales@anchormark.com  
URL: www.anchormark.com

Pharmafill A-3 is a fully Automatic Capsule Filling table top R&D (Lab) Model which can be used to fill powder using tamping mechanism, pellets and tablets. Contact Parts - SS 316 Quality. Suitable for Capsule Sizes 00 to 5.

Established in 1980, Anchor Mark Pvt. Ltd. is known for innovation, quality and after sales service. It has manufacturing facilities at two different locations in Mumbai. Equipments manufactured are compliant to cGMP norms and various regulatory requirements and include Encapsulation machines like manual, semi-automatic, automatic; lab models and production models with an output ranging from 25,000 to 150,000 capsules / hr with provision to fill powder, pellets and tablets, Liquid packaging lines; semi-automatic, monoblock with an output ranging from 40 to 400 BPM, Complete set of Granulation equipments including Auto Coaters, Dry Powder Packaging Lines and full range of R&D and Pilot scale equipments for capsule, tablets, dry syrup and liquid syrup.

**Booth: A-8, Hall - 5**  
**ANISH PHARMA EQUIP PVT. LTD.**

G-68, M.I.D.C., Ambad  
NASHIK 422 010 INDIA  
TEL: +91.253.238.1831 / 238.0903 / 238.0337  
EMAIL: info@anishpharma.com  
URL: www.anishpharma.com

PRODUCT LISTING:

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- Fluid Bed Dryer (FBD)
- B) Liquid Oral Section
- Liquid Syrup Manufacturing Plant
- C) Ointment Section
- Ointment Manufacturing Plants – Top & Bottom Entry Model
- Sterile Ointment Manufacturing Plants
- D) Sustained Release Formulation
- APCG – Pellets Coater Granulator Wurster Type
- Coating Pan
- Roto – Granulator-tangential Spray
- E) Bulk Drug Section
- Roto Cone vacuum Drier.
- Reactors & Receivers.
- Short Plant Distillation units (SPDU).
- Heat Exchangers.

Incorporation:

The company was incorporated under Companies Act, 1956 (No.1 of 1956) at Mumbai on 25th May 1991.

Promoters: Mr. J. A. Gawde  
Group Chairman  
Mr. Yogendra Samant MD &  
CEO  
Mr. Ravindra Samant Director

**Booth: C-4, Hall - 5**  
**ANVAY PHARMA SYSTEMS PVT. LTD.**

29, BLDG. NO.1, EXT-II, RAJPRABHA UDYOG NAGAR,  
GOLANI NAKA, WALIV ROAD, VASAI (EAST),  
DIST: THANE, MAHARASHTRA  
MUMBAI 401 208 INDIA  
TEL: +91.250.605.5551 / 2 / 3  
EMAIL: pharma\_systems@yahoo.com  
URL: www.pharmasystems.in

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**Booth: G-22, Hall - 5**  
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123, Jeedimetla village, Quthbullapur Road,  
HYDERABAD 500 055 INDIA  
TEL: +91.40.2309.0494  
EMAIL: sales@appiditech.com  
URL: www.appiditech.com

Introducing ourselves as a leading manufacturing company for Desiccant Dehumidifiers and Energy Recovery systems for the last over 14 years. We are an ISO 9001-2008 & CE certified company with CNC manufacturing

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We have entered in to technical tie up with M/s Klingenburg, Germany for their Eurovent and AHRA certified Energy recovery components like Heat Recovery Wheels, Plate type cross flow and counter flow heat exchangers for various applications. We manufacture complete range of Dehumidifiers with AHU, Energy recovery systems with supply and exhaust sections, cooling coils and filters etc.

**Booth: E-07/A, Hall - 1**  
**ARBESTOOLS PVT. LTD.**

C-105, GHATKOPAR INDUSTRIAL ESTATE,  
L. B. S. MARG, GHATKOPAR (WEST),  
MUMBAI 400 086 INDIA  
TEL: +91.97694.85821  
EMAIL: ttarbes@arbestools.com  
URL: www.softgels.us

ARBES TOOLS – TOOLTRONICS specialises in SOFTGEL SOLUTIONS for stress-free production of superior quality SOFT GELATIN CAPSULES (paste, suspensions and oil formulations).

Our strength lies in the fact that we supply user-friendly, high-yield softgel equipment and also support you in the softgel encapsulation process. We produce commercially sale-able softgels during the commissioning of our equipment. Our team will also train your personnel in the various softgel related equipment and processes, help your Chemists in developing new formulations and assist your personnel in preparing the necessary protocols and documentation to ensure uninterrupted production.

Over 200 Encapsulation lines have been installed with multinationals like SUN Pharmaceuticals, Aurobindo Pharma, Merck, Emcure USA and reputed pharmaceutical companies like Panacea Biotec, Affy Pharma, Macleods, Mundi Pharma, Arvind Remedies, Olive Healthcare, Natco, Alkem, XL Laboratories, Renown Pharmaceuticals, Symbiosis Pharmaceuticals, Alpha Products, etc. Overseas, our clients are located in North America (USA), Europe (UK, Belgium, Germany, France, Poland), South Africa, South America (Colombia and Venezuela), Asia (Thailand, Syria, Iran, Egypt, Bangladesh, Taiwan, UAE), Australia, etc. Most of our clients have at least three or four (and upto ten) Encapsulation lines in satisfactory operation.

**Booth: B-9/B, Hall - 5**  
**ARISTO EXPORTS**

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ANDHERI EAST,  
MUMBAI 400 059 INDIA  
TEL: +91.22.2850.6721  
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**Booth: G-15, Hall - 1**  
**ASPIRE INDIA**

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Waliv, Vasai (East),  
THANE 401 208 INDIA  
TEL: +91.250.605.1696 / 645.1696  
EMAIL: admin@aspireindia.in  
URL: www.aspireindia.in

With immense pleasure, we take this opportunity to introduce ourselves as a leading Mfrs. And Suppliers of 'ASPIRE' brand Pharmaceutical Equipments covering a wide range of products. The above equipments are manufactured by us at our own factory, in S.S. 304 / 304L / 316 / 316L. Material of construction in accordance with the required standards under strict quality control and skilled supervision. We have a covered area of approx. 3,000 Sq. Ft. and equipped with necessary in-house testing facilities. We are associated with Ranbaxy Laboratories Ltd., Zydus Cadila Health Care Ltd., Sandoz, Glenmark Pharma, Unichem Laboratories Ltd., Dr. Reddy's Laboratories Ltd., Cipla, Sun Pharmaceuticals, Wockhardt Ltd., Torrent Pharmaceuticals Ltd., Johnson & Johnson, AstraZeneca, Lupin, Aventis, Jubilant Organosys and many more. We would like to state that we can offer our products for third party inspection, in case Pre-Supply Inspection is stipulated.

**Booth: E-07/D, Hall - 1**  
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TEL: +91.250.239.3502  
EMAIL: ppk@autocal.net  
URL: www.autocal.net

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**Booth: B-14, Hall - 5**  
**BECKHOFF AUTOMATION PVT. LTD.**

Suite 4, Level 6, Muttha Towers,  
Don Bosco Marg, Yerwada  
PUNE 411 006 INDIA  
TEL: +91.20.4000.4800  
EMAIL: info@beckhoff.co.in  
URL: www.beckhoff.co.in

Beckhoff implements open automation systems based on PC Control technology. The product range covers Industrial PCs, I/O and Fieldbus Components, Drive Technology and automation software. Products that can be used as separate components or integrated into a complete and seamless control system are available for all industries.

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**Booth: B-1, Hall - 5**  
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S.V.ROAD, JOGESHWARI (W),  
MUMBAI 400102 INDIA  
TEL: +91.22.2679.7941  
EMAIL: iewi@mtnl.net.in,  
iewi@vsnl.net  
URL: www.iewi.net

We are one of the leading Turnkey Project Solution providers and manufacturers and exporters in the field of setting up equipments for the Pharmaceutical industry, world wide.

We have our Head Quarters in Mumbai and manufacturing facilities at Ankleshwar and Pune.

We have executed Turnkey Projects in India and Abroad in countries like U.S.A., U.K., Australia, Russia, Israel, Estonia, Romania, Oman, Jordan, Israel, South Africa, Kenya, Nigeria, Tanzania, Malaysia, China, Bangladesh, Ghana, UAE, and Pakistan.

**Booth: F-04/A, Hall - 1**  
**BHARAT RUBBER WORKS PVT. LTD.**

B-46, GIRIKUNJ INDUSTRIAL ESTATE,  
OFF. MAHAKALI CAVES ROAD, ANDHERI (E),  
MUMBAI 400 093 INDIA  
TEL: 26875361 / 62 / 63 / 64  
EMAIL: marketing@brworksindia.com  
URL: www.bharatrubberworks.com

Established in 1978, the Mumbai-based Bharat Rubber Works Pvt. Ltd.

The company is number 1 manufacturer in ASIA for PLASTIC / GLASS DROPPER ASSEMBLY in various colour combination of RUBBER TEATS, CAPS in all sizes & Volumes; RUBBER STOPPERS in Large & Small Volume Parenterals and various colours / sizes in Synthetic and Natural Polymers, and also available in RFS & RFU. We are also specialized in making ECO FRIENDLY COATED RUBBER STOPPERS.

Components for DENTAL CARTRIDGES, MEASURING CUPS, SPOONS, DIAGNOSTIC PACKAGING PRODUCTS, RUBBER WADS, DISCS, ROPP CAP, APPLICATORS, BOTTLES etc., are the milestones in the History of Bharat Rubber's growth.

The manufacturing facilities are built as per cGMP standards and is managed by technically competent and qualified people. The company is certified by M/s. American Global Standards for consistently maintaining required ISO standards.

**Booth: H-01, Hall - 1**  
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MUMBAI 400 078 INDIA  
TEL: +91.22.2596.1735  
EMAIL: biomedlab@gmail.com, info@biomedlaboratories.co.in  
URL: www.biomedlaboratories.co.in

We are manufacturers of clean room & sterile garments. We are sole representative in India for Premier American Company PRECISION

FABRICS GROUP, NC USA, who are world leaders in barrier fabrics. Our cleanroom garments made out of this barrier fabric is unique because it has longlasting, antibacterial, fluid resistant technology & antistatic due to carbon fiber.

**Booth: F-07A, Hall - 1**  
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PLOT: A-145 / 5, MIDC - PAWANE (KHAIRNE)  
THANE-BELAPUR ROAD  
NAVI MUMBAI 400710 INDIA  
TEL: +91.22.2784.5115  
EMAIL: vamshi@briopharmatech.com  
URL: www.briopharmatech.com

BRIO Pharma covers the entire spectrum from the high-performance segment to the processing of small batches in the solid dosage oral, injectable and the packaging domain of the Pharma industry. BRIO's holistic approach integrates and optimizes the entire drug manufacturing process to lower costs and shorten lead times for solid and liquid drug manufacturing. Our unique range of products and solutions helps you create transparent processes that easily adapt to your customers' needs. We are always focussed on keeping our customers happy, and provide them best possible after sales services.

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- IMA SPL - ITALY
- LAMEPLAST - ITALY
- BREVETTI ANGELA - ITALY
- ADAMUS - ITALY
- NILFISK - ITALY

**Booth: B-30, Hall - 5**  
**BRITE PROOFING PVT. LTD.**

Unit No. 107 - 110,  
First Floor, Raikar Chambers,  
Sr. Shankeshwar Parshwanath Road, Govandi (E),  
MUMBAI 400 088 INDIA  
TEL: +91.22.4043.3433  
EMAIL: admin@brppl.co.in, ramnath@brppl.co.in  
URL: www.briteproofings.com

Brite Proofings Pvt Ltd is India's premier company in installation of various Jointless Synthetic floor systems. It has meticulously diversified from pharma sector mandated clean room finishings into synthetic floors, walls and concrete styles.

Vision: To be the most responsive and knowledgeable provider of advanced Fast Track systems.

The success of Brite Proofings Pvt Ltd is based on skill and expertise which is employed to add a refreshing dimension to any flooring requirement. It also has a dedicated R&D team, committed to exploring new options and devising economical and efficient flooring solutions. Everyday in Brite Proofings is marked by a constant and conscious endeavour to evolve and adapt. This attitude is instrumental in setting aside Brite Proofings from the rest of the pack.

Product Line & Technology  
Evolution in execution techniques and inconceivable finesse in the final finishing of the floors have revolutionised the world of seamless floors.

From the mandatory jointless floors for pharma and Hygiene sectors to aesthetically appealing and constructionally expedient, possibilities in floors are now endless and are only limited to one's imagination

Visually stimulating concrete floors now come in a multitude of design options to capture the imagination. A floor can now reflect the soft striation of a leaf or the rough gradation of concrete with equal ease.

Cement Based Terrazzo as invented by the Venetians is now replaced by the newer type Fast Track of terrazzo that gives a host of benefits along with the same timeless beauty. In early times people placed Greco Roman Mosaics and frescoes on floors to get floor art. Now in the 21st Century, Digital Imagery Revolution make the possibilities of similar art limitless.

**Booth: F-04, Hall - 1**  
**BROTHERS PHARMAMACH (INDIA) PVT. LTD.**

Plot: 2, Phase II, GIDC, Vatva  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.4021.3213  
EMAIL: sales@brothers.in  
URL: www.brothers.in

BROTHERS Pharmamach (India) Pvt. Ltd., is one of the foremost Manufacturers & Exporter of Pharmaceutical & Packaging Machinery such as:

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- Airjet Cleaning Machine
- Linear & Rotary Liquid / Powder Filling Machine
- Linear & Rotary Injectable & Dry Syrup Powder Filling Machine
- Viscous Product Filling Machine
- Tablet Bottle Packing Line
- ROPP / Screw / CRC / Tear Off / Flip Off Capping Machine
- Pick n Place Capping Machine
- High Speed Wet Glue Labelling Machine
- Sticker Labelling Machine (max. 600 / minute)
- High Speed Vial / Ampoule Labelling Machine
- Hologram Applicator, Unscrambler / Scrambler
- Inspection / Packing Conveyor
- Leaflet / Outsletter Pasting Machine
- Shrink Sleeve Applicator
- Track n Trace
- Vision System on Packaging Lines / Machines, etc.

For more details about our company and its products range, please visit [www.brothers.in](http://www.brothers.in)

**Booth: C-34/B, Hall - 5**  
**BUSINESS HORIZONS**

G-59, Greater Kailash - 3  
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Business Horizons is engaged in the publishing and marketing of quality books serving the niche markets of pharmaceutical industry and herbal industry. Our books are evolved around the technology requirements of these industries. Business Horizons takes pride in the international appeal of its titles, and the list of authors includes leading scientists from all continents. Our international presence in over 80 countries ensures the dissemination of high-quality publications throughout developed and developing countries.

**Booth: G-27/A, Hall - 1**

**CAELSONS INDUSTRIES**

C-1 4610 G.I.D.C PHASE IV VATVA  
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TEL: 079-25840372  
EMAIL: nimachec@yahoo.com

Manufacturers of:

- TUBE FILLING SEALING
- TUBE CODING MACHINE FOR ALUMINIUM COLLAPSIBLE, LAMI & PLASTIC

**Booth: D-1/A, Hall - 5**

**CAPTECH ENGINEERS**

201, RACHNA INDUSTRIAL ESTATE,  
MIRA-BHAYANDAR ROAD,  
NEAR FLY-OVER BRIDGE, BHAYANDAR-EAST  
THANE 401 105 INDIA  
TEL: +91.22.2818.3528  
EMAIL: accounts@captech.in  
URL: www.captech.in

We have great pleasure in introducing ourselves as one of the leading manufacturer & Exporter of Capsulation Machineries, Change parts & Spares, enjoying good name & reputation in the market. We have established our Company in 1997 & started with Change Parts & Spares. From 2004 we are dealing in Semi Automatic Capsule Filling & Polishing Machine & till today we have sold approx. 300 Capsule Filling & Polishing Machine in Indian Market & worldwide.

Recently from 2011 we have developed Fully Automatic Capsule Filling Machines & sold 5 to 6 machines in the market.

**Booth: G-01, Hall - 1**

**Carlson Filtration Ltd.**

Butts Mill, Barnoldswick,  
Lancashire BB18 5HP England UK  
TEL: +44(0)1282811000  
EMAIL: sales@carlson.co.uk  
URL: www.carlson.co.uk

Carlson Filtration was established in 1923 by John C Carlson and has been based at Butts Mill in Barnoldswick, England since 1950. From that time to the present day, the company has developed a strong position in the market place for filtration equipment and filtration media in various forms from depth filter sheets to high performance cartridges. From the whisk(e)y, wine and brewing industries through to the clarification of fruit juices and filtration in the pharmaceutical, chemical and food industries, Carlson Filtration develops, manufactures, markets and distributes a broad range of products to suit all applications. From the Barnoldswick factory the company distributes products throughout the UK and to over 130 countries through an extensive network of agents and distributors.

**Company Philosophy**

We arrange our business on a number of important principles:

THE HEALTH AND SAFETY of all our employees is of prime concern to us. We put this concern into practice by operating within all relevant safety legislation, encouraging our employees to take responsibility for their own safety and by developing a 'health and safety' culture within our company.

OUR APPROACH TO QUALITY is to provide our customers with products which are consistently fit for their intended purpose and we achieve this by operating to ISO9001:2008, developing products to meet the changing requirements of our customers and by encouraging a 'produce

it right first time' attitude within our company.

OUR RESPONSIBILITY TO THE ENVIRONMENT in which we operate is fulfilled by being a good neighbour to the community of Barnoldswick and beyond. We achieve this by ensuring our operations not only conform to all relevant legislation but also by using operating methods which minimise their impact on the environment through continuous investment in modern process control systems.

Carlson still utilise the original Mill built in the 1800s, although the original building has seen a lot of change.  
US DMF NUMBER (Drug Master File Number)

Following submission to the United States Food and Drug Administration, Carlson Filtration has an assigned Type 1 Drugs Master File Number - DMF 14255, meaning that pharmaceutical and chemical manufacturers can use Carlson depth filter sheets with confidence.

CONTINUOUS IMPROVEMENT in all that we do is the approach we use in all our operations. From the way we deal with customer enquiries, through technical development in our laboratories, process development in our factory, right through to product delivery, we are never satisfied. We believe in continuous improvement.

**LOCAL BUSINESS ASSOCIATES:**

- KITTEN ENTERPRISES  
New Mumbai INDIA

**Booth: B-12/B, Hall - 5**

**CENTECH ENGINEERS PVT. LTD.**

B 309, HIND SAURASHTRA INDUSTRIAL ESTATE,  
MAROL NAKA, ANDHERI KURLA ROAD, ANDHERI (EAST),  
MUMBAI 400 059 INDIA  
TEL: +91.22.6137.8900 / 2856.1340 / 41  
EMAIL: centechengg@gmail.com  
URL: www.centech.in

We are growing engineering enterprise involved in turnkey clean rooms solutions especially for the pharmaceutical industry. Our scope of work is right from design conceptualization of a clean room to the entire procurement, construction, validation, training of personnel in order to obtain proposals like US FDA, UK MHRA, South Africa, MCC, Australia, TGA, etc. Our range of clean room products includes:

- Static / Dynamic Pass Boxes
- L.A.F.
- Hepa Filters
- Pre & Microvee Filters
- Air Showers
- Dispensing & Sampling Booths
- HVAC Equipments like:
- Handling Units
- Grills & Diffusers
- Perforated Sheets
- Volume Control Dampers
- Pre Dampers
- Electrical Panels, etc.

**Booth: G-09, Hall - 1**

**CHAMUNDA PHARMATECH**

G-22, Rudraksh Complex,  
Opp. Annapurna Restaurant,  
Nr. Trikampura Patiya, Phase-III, GIDC, Vatva,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.4008.3693  
EMAIL: chamundapharmatech@yahoo.co.in

URL: www.chamundapharmatech.in

Chamunda Pharmatech has been an established and popular company with an excellent track record for the best customer satisfaction. We have never compromised on the quality and the services provided to the customer.

Our technical expertise gives the credential result in our machine efficiency. We are experts for the following particular machine range.

Vial Filling Line (Powder & Liquid)  
All line consisting machine from washing to packing conveyor.

- Washing
- Filling
- Cap Sealing
- Labeling (Sticker / Wet Glue)
- Packing Conveyor

Bottle Filling Line (Powder & Liquid)  
All line consisting machine from washing to packing conveyor.

- Washing
- Filling
- Screw / ROPP Capping
- Labeling (Sticker / Wet Glue)
- Packing Conveyor

- Fully Automatic Eye / Ear Filling
- Plugging & Capping Machine

- The machine operation is fully Automatic Mode
- Semi Automatic Tube Filling, Sealing & Coding Machine
- The machine operation is manual tube loading in machine then other function is automatically
- Automatic Linear Capping Machine
- The machine main benefit is no change parts requirement for other size bottle

**Booth: C-19, Hall - 5**

**Changzhou Mingfei Package and Printing Co., Ltd.**

GOUNAN INDUSTRY PARK, YANCHENG, HUTANG, WUJIN  
CHANGZHOU 213164 CHINA  
TEL: +86.519.8507.2619  
EMAIL: TOP10BIZ@GMAIL.COM  
URL: www.icleantech.com

Changzhou Mingfei Packaging & Printing Co., Ltd locates in Yancheng, which is an ancient city among the Yangtze River Delta, near expressway, 2 hours by car while 1 hour by train to Shanghai, the traffic is very convenient. Since foundation, Mingfei develops and produces all sorts of LDPE collapsible jerry cans since 1988, the production and inspection are according to ISO system and UN standard, our products are widely proved by customers all around the world.

We have the ability of customized requirements, we've made several molds each year for customers, and we always focus on the quality control and technical improvement. We Mingfei wish to have cooperation with you respect customer, trying our best to offer you best consistent products at reasonable prices, I wish we could bring wealth for you in the near future!

**Booth: H-07, Hall - 1**

**CHARLES ISCHI AG**

Langfeldstrasse 26, 4528 Zuchwil  
ZUCHWIL 4528 SWITZERLAND  
TEL: +41.32.621.4923  
EMAIL: info@ischi.ch

URL: http://www.ischi.ch

Manufacturer of Quality and in-process control in the Pharmaceutical industry

**LOCAL BUSINESS ASSOCIATES:**

- PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

**Booth: C-31, Hall - 5**

**CHITRA MACHINERIES PVT. LTD.**

PLOT NO.202 & 226, ROAD NO. 3, G.I.D.C. KATHWADA,  
AHMEDABAD 382 430 INDIA  
TEL: +91.79.2929.2650 / 2970.1726  
EMAIL: accounts@chitramachineries.com  
URL: www.chitramachineries.com

**Manufacturers & Exports of:**

- PHARMACEUTICALS
- FOOD
- CHEMICALS
- COSMETICS MACHINERIES

**Booth: F-14A, Hall - 1**

**CIPRIANI HARRISON VALVES PVT. LTD.**

Plot No. 1901, Phase-4, GIDC  
Vitthal Udhyanagar,  
ANAND 388 121 GUJARAT INDIA  
TEL: 91-2692-235082 / 235182 / 235282 / 233243  
EMAIL: info@harrisonengineers.com  
URL: www.ciprianiharrisonvalves.com

Cipriani Harrison Valves Pvt. Ltd. is a world-class engineering organization, primarily engaged in manufacturing Stainless Steel Valves and Flow Equipments for Food Processing Industries, since 1994 under collaboration with Cipriani Harrison Valves Corporation U.S.A. We have been exporting 90% of our products to American Sub-Continent, Australia, New Zealand and South East Asian Countries.

Cipriani Harrison Valves and flow devices, meet the strict specifications of the sanitary process industries. Our valves are 3A Certified, a benchmark in global quality standard. CHVPL has modern CNC machine shop and dust proof assembling facilities. We are ISO 9001-2000 Certified Company from TUV NORD.

**Booth: H-07, Hall - 1**

**Citizen Scale (I) Pvt Ltd**

No. E/2, Plot No. 11, WICEL Estate, Andheri (E)  
MUMBAI 400 093 INDIA  
TEL: 9122-42437700  
EMAIL: sales@citizenscales.com  
URL: www.citizenscales.com

Manufacturer of Laboratory / Industrial Weighing Scales

**LOCAL BUSINESS ASSOCIATES:**

- PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

**Booth: H-02/A, Hall - 1**

**CMP SRL**

Via Galileo Galilei, 26 36030, Costabissara, Vicenza,  
COSTABISSARA 36030 ITALY  
TEL: +39.0444.971716  
EMAIL: info@cmp-pharma.it  
URL: www.cmp-pharma.it

**Products / Services offered:**

Since 1978 the company CMP has been manufacturing inspecting machines for the Pharmaceutical and Veterinary Industry and in 1982 it was the FIRST COMPANY IN THE WORLD to introduce in the market the fully automatic laser ray inspecting machine equipped with cameras for ampoules vision (EEC patent N. 84.200090.3). The production range includes automatic and semi-automatic machines with No. 2 types of movement: INTERMITTENT and CONTINUOUS MOTION, suitable to inspect pharmaceutical and veterinary products in ampoules, cartridges, pre-filled syringes and lyophilized products. Moreover CMP produce leak test machines using the HVLD technology, either stand-alone or integrated to the particle inspection machines.

**LOCAL BUSINESS ASSOCIATES:**

- INCOME Group  
Mumbai INDIA

**Booth: A-11/B, Hall - 5  
COMPROMECC**

G/602 New Golden Nest, Phase 14,  
Mira Road,  
THANE 401 107 INDIA  
TEL: +91.22.2816.3680  
EMAIL: amresh@compromec.com  
URL: WWW.COMPROMECC.COM

COMPROMECC provides cutting edge technology from Europe and USA to India for Sterile filling line. Various product range to handle application ranges from R&D to Production line.

We offer Filling machines and Camera Inspection machines with latest technology following cGMP Guidelines

- Filling line to fill powder/Liquid in vials, syringes.
- Special powder filling machine to handle Microsphere product.
- High speed Injection stretch blow molding & filling line for PP bottle with zero scrap.
- Camera Inspection machines for Vials, Ampoules, Syringes, Cartridges, bottles.

We have special product from France to upgrade your existing old filling machine:

- Customized Rotary Piston pump suitable for any make and model of filling machine. These pumps are designed to handle various product like high viscous product, suspension product, subzero product, etc.
- Filling head with Servo mechanism to be integrated to existing machine for with an accuracy as good as 0.1%
- Benchtop Combi filling and stoppering machine for Vials, prefilled syringes and cartridges.

**FOREIGN PRINCIPALS:**

- M&O PERRY - USA
- SPC GROUP - FRANCE
- GFS.p.A - ITALY
- PENNTECH - USA

**Booth: D-11/A, Hall - 5  
CONDOT SYSTEMS PVT. LTD.**

122, Niraj Industrial Estate, Off Mahakali Caves Road, Behind Paper box Factory, Opp. Sun Pharma, Andheri (East),  
MUMBAI 400 093 INDIA  
TEL: +91.22.2687.7023  
EMAIL: cspl@condotsystems.com  
URL: www.condotsystems.com

Condot Systems Pvt. Ltd. came into being in the year 1994 as if to signal the dawn of a dazzling new era in Variable Data Printing and Package

Coding with regard to a technological revolution, the like of which neither the Packaging nor the Printing industry had ever experienced before. The founders, highly qualified technocrats, lost no time in realising that the success of their enterprise depended as much, or rather even more, upon the quality, consistency and reliability of the range of products and their services they offered; also, ensured that they strictly adhered to this 'principle' throughout their journey over 2 Decades to be where they are today.

Today, we are the only company in India who cater to the entire range of Variable Data Printing and Package Coding requirements. We are proud to spell Condot is the first Indian private organisation in Coding Marking and Variable data Printing Industry having network reach across Asia- Pacific and Africa. We cater to the entire range of Variable Data Printing and Package Coding requirements with innovative solutions. With different Variable Data Printing & Package Coding applications and different production lines, we leave no stone unturned to exceed the expectations of its huge customer fraternity which has crossed the 35000 marks. We have attained the Numero Uno status by always offering to each and every customer.

**Booth: A-1, Hall - 5**

**CRYSTAL AUTOMATION PVT. LTD.**

M/S. CRYSTAL AUTOMATION PVT. LIMITED,  
A 363/364, ROAD NO. 26,  
WAGLE INDL. ESTATE,  
THANE WEST 400 604 INDIA  
TEL: +91.22.2580 2433 / 34  
EMAIL: mail@crystalautomation.com  
URL: www.crystalautomation.com

We are one of country's leading Manufacturer, Exporter & Consultants of Design, Engineering, and Supplier of processing equipments, system, plants, allied equipments for powder or any other form of input material and customized special purpose equipments.

For over two decades our concept and performance based equipments are user friendly which are being widely used by our satisfied esteemed customers in various industries like Pharmaceutical, Chemicals, Food and Beverage, Fertilizer, Cement Industry etc. and other allied industries all over India as well as overseas.

Visit our website [www.crystalautomation.com](http://www.crystalautomation.com) for more details

**Booth: H-07, Hall - 1**

**CUBE GROUP (DCM)**

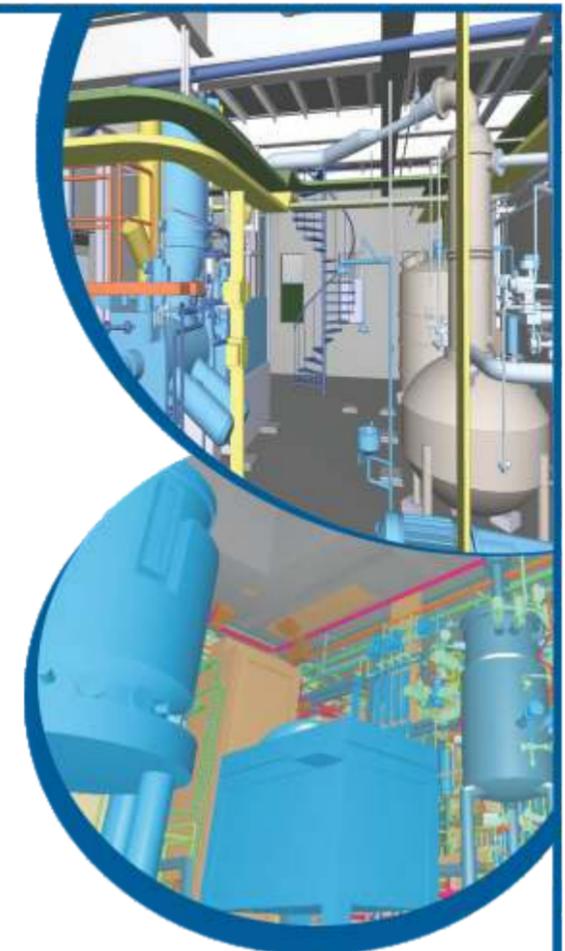
A 1411, Gwangmyeong Technopark,  
1345, Soha-Dong, Gwangmyeong-S  
Gyeonggi-do KOREA  
TEL: +82.2.6112.2166  
EMAIL: snjhightech@hotmail.com  
URL: www.cubeeaa.com

Cube group manufacture the world class Softgel Encapsulation machine, Blister packing machine, Lazer Marking machine etc.

**LOCAL BUSINESS ASSOCIATES:**

- PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

Turnkey solutions with  
a difference:  
**Idea to Commercialization:**



**Pioneering the  
Process Industry**

Elomatic has extensive experience in delivering demanding pharmaceutical and biotech industry projects and has been active in the field for more than 40 years. Our teams of Engineers, along with their vast and diverse experience, cover all process engineering related work for projects ranging from simple Oral Solid Dosage plants to highly complex Cell Culture facilities. We also have experience of engineering work for BSL3 facilities.

The proof of our know-how and experience are the numerous facilities that have successfully been audited for US FDA and EMEA compliance. Our engineering design and practices are veered towards our Client's regulatory requirement.



**We Engineer  
AFFORDABLE Healthcare!**

Contact Elomatic locally to find out how our technical expertise can make a difference to your operations.  
Address : Metropolitan, 1st Floor, Plot No. A-140, Road No. 23, Wagle Industrial Estate, Thane (W), Pin-400 604. India.  
Phone : +91 22 258 36164 | Fax : +91 22 258 36 165 | Email : abhay.ranjan@elomatic.com | Web : www.elomatic.com/india

**Booth: D-6, Hall - 5**

**CVC TECHNOLOGIES INDIA PVT. LTD.**

602 MANMANDIR SURAKSHA, BUILDING NO.3  
NAHUR VILLAGE, NAHUR ROAD,  
MULUND (W)  
MUMBAI 400 080 INDIA  
TEL: +91.22.2562.1242  
EMAIL: vibhak@cvcindia.com, cvc@cvcindia.com  
URL: www.cvctechnologies.com

CVC is the No. 1 supplier and preferred vendor for Tablet / Capsules bulk packaging lines & SelfSet™ Sticker labeling machines, having state of the art manufacturing facility at Taiwan. We have more than 1800 machines in production in leading Pharmaceutical companies ably supported by experienced and well trained engineers.

We also offer Tablet / Vial / Ampoule Inspection, Blister packing / Cartnator, Tablet Press, Capsule Fillers

We have started manufacturing Labelers our in India facility. The Key features of CVC labelers includes:

- SelfSet™ - No skilled operator needed. Machines sets on its own in 30 seconds
- Automatic adjustment of all electronic components Prevents Wrinkles and Misfeeds
- 100% Fail proof Rejection system to guarantee no market complaints.
- Automatically Synchronizes speed for All moving parts
- Superior Placement Accuracy upto 1/32

**Booth: B-15/A, Hall - 5**

**DAIICHI JITSUGYO (T) CO. LTD.**

401, 4TH FLOOR, TIMETOWER, M.G ROAD,  
GURGAON 122 002 INDIA  
TEL: +91.124.426.6080  
EMAIL: hiroyuki.imamura@djk.co.jp  
URL: www.djk.co.jp

Daiichi Jitsugyo co., Ltd. (DJK) is a trading firm providing skilled marketing and develop applied technologies to meet diverse client needs created by the rapid evolution of machinery. DJK utilizes its wealth of experience and extensive know-how in the pharmaceuticals, food, cosmetics industries to offer a wide range of products, including various inspection machines, Packaging machines and Process Equipment machineries.

**FOREIGN PRINCIPALS:**

· DAIICHI JITSUGYO CO., LTD. - JAPAN

**Booth: H-07, Hall - 1**

**DAIICHI JITSUGYO VISWILL CO. LTD.**

12-43, Honami-Cho, Suita-Shi  
OSAKA 564-0042 JAPAN  
TEL: +81-6-6378-6115  
EMAIL: y.matsunaga@viswill.jp  
URL: http://www.viswill.jp

Manufacturer of Highly sophisticated Visual Inspection System for Tablets / Capsules

**LOCAL BUSINESS ASSOCIATES:**

· PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

**Booth: B-26 + B-27, Hall - 5**

**DOMINO PRINTECH PVT. LTD.**

Plot No- 167, Udyog Vihar Phase-1

GURGAON 122016 INDIA

TEL: +91.98103.14692

EMAIL: marketing@dominoindia.com

URL: www.dominoindia.com

DOMINO is one of the world's largest manufacturers of digital printing solutions. Our products are used for date coding, product marking, serialisation and variable printing onto products you use in your everyday life. Our customers are some of the most recognisable brands in healthcare, food, beverage and commercial printing.

Domino Printech India Private Limited is a fully owned subsidiary of Domino Printing Sciences plc. Cambridge, UK. Domino was the first ink jet coding company to come to India in 1988.

Domino India is leading supplier of coding solutions in the country. Our primary & secondary coding technologies find application in large and key areas of Industry segments which include: Food, Pharma & Healthcare, Dairy, Beverages, Paints & Chemicals, Cosmetics & Personal Care, Engineering, Breweries & Distilleries and a host of other industries.

We bring global expertise, in-depth domain knowledge and vast local industry experience to successfully cater to wide ranging coding needs across various industry segments. We offer reliable products, innovative solutions and dependable services at the best possible value to our customers. Domino India has pan-India presence, to give caring support to our customers.

**Booth: H-07, Hall - 1**

**Dott Bonapace & C.S.r.l.**

Via Isonzo 12208  
12 Limbiate (MB) ITALY  
TEL: +39 02 33122.1  
EMAIL: r.colombo@dottbonapace.com  
URL: www.dottbonapace.com

Manufacturer of Pharmaceutical R&D and Lab scale equipments

**LOCAL BUSINESS ASSOCIATES:**

· PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

**Booth: D-12, Hall - 5**

**ELECTROLAB (INDIA) PVT. LTD.**

401, Tirupati Udyog, I. B. Patel Road,  
Off. Western Express highway, Goregaon (East),  
MUMBAI 400 063 INDIA  
TEL: +91.22.4041.3131  
EMAIL: sales@electrolabindia.com  
URL: www.electrolabindia.com

ELECTROLAB, established in 1984, manufactures Dissolution Testers, Dissolution Media Preparator, Disintegration Tester, Friability Tester, Tablet Testers, Tap Density Tester, Bulk Density Tester, Manual Powder Flow Tester, Electromagnetic Sieve Shaker, Leak Tester and Peristaltic Pumps.

ELECTROLAB exports 50% of its production to 70 countries across the globe.

**Booth: G-10, Hall - 1**

**ELECTRONICA FINANCE LTD.**

KAILASCHANDRA, 128/1A, PAUD ROAD, KOTHRUD,

PUNE 411 038 INDIA

TEL: +91.20.2545.9716 - 19

EMAIL: sv.patil@electronicafinance.com

URL: www.efl.co.in

Electronica Finance Limited (EFL) is a leading Non Banking Finance Company (NBFC) with a sectoral focus on MSME finance. With over 20 years into machine loans, it has emerged as the market leader with over 6000 satisfied customers across the country. With 25 main branches, EFL cater to the requirements of over 51 Industrial cities Pan India.

EFL offers easy and flexible machine loans, with a remarkable turn around time of 7 days as against the industry standard of about 2 months.

EFL remains committed to financial inclusion and aspires to reach out to 10000 MSME units awaiting quick loans and fulfill its mission- Building the MSME... Driving the Economy.

**Booth: B-15, Hall - 5**

**ELECTRONICS DEVICES WORLDWIDE PVT. LTD.**

31, MISTRY INDUSTRIAL COMPLEX  
CROSS ROAD A, M.I.D.C, ANDHERI EAST,  
MUMBAI 400 093 INDIA  
TEL: +91.22.2687.4629  
EMAIL: sunaina@edmail.in  
URL: www.inductioncapsealing.com

Electronics Devices Worldwide Pvt Ltd, established in 1974 and is one of the leading manufacturers of Induction Cap Sealing Machines.

The past 3 decades have helped us not only revamp the Sealing Technology from sustainability point of view but also have provided several innovative sealing solutions to the Food, Pharma, agriculture, Petrochemical and many other Industries across the globe to maintain product safety, freshness, deliver higher productivity, enhance marketing and support cost reduction.

Today in 2014, we have a happy family of 10,000 customers spanning over 70 countries. Our R&D Team has had ample of opportunity to work on simple and complex projects, and have successfully designed and delivered sealing heads that have sealed millions of products day after day.

So, if you have a product filled in a bottle / container, no matter what shape & size, we will seal it for you.

**Booth: H-07, Hall - 1**

**ELIZABETH HATA INTERNATIONAL**

14559 ROUTE 30, 101 PETERSON DRIVE,,  
N. HUNTINGDON PA 15642 U.S.A  
TEL: +1.412.829.7700  
EMAIL: jimc@eliz.com  
URL: www.eliz.com

Elizabeth Hata International Inc. provides the world class quality tooling & machinery to the Pharmaceutical industry.

**LOCAL BUSINESS ASSOCIATES:**

· PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

**Booth: C-29, Hall - 5**

**ENERCON ASIA PACIFIC SYSTEMS PVT. LTD.**

No-6, New SIDCO Industrial Estate  
Srinagar,  
HOSUR 635 109 INDIA

TEL: +91.4344.29.1447

EMAIL: ganesh@enerconmail.com

URL: www.enerconasiapacific.in

Enercon Asia Pacific Systems (P) Ltd. is a leading manufacturer and provider of air cooled induction cap sealing machine. The Super Seal™ Series from the company takes another leap forward with the new Super Seal™ PLC Touch. This powerful new system features Synergy of microprocessor & PLC, giving the Dual benefits of Efficiency and Program Management as Per the customer Requirement

**Booth: G-14A, Hall - 1**

**ENVIRO TECHNOLOGIES**

308, Puranik Capitol,  
Opp Hyper City Mall,  
Ghodbunder Road,  
Kasarvadavali  
THANE 400 607 INDIA  
TEL: +91.22.6464.6500  
EMAIL: marcom@enviworld.in  
URL: www.enviworld.in

Enviro Technologies is the Market leader in Specialised Process Monitoring and alarm Solutions.

Enviro Technologies began in 2002 with an aim in providing the most accurate environmental monitoring, alarming and validation solutions to the pharmaceutical, biotechnical, medical, Healthcare and other calibration industries. The ability to manufacture advanced products for the industry indigenously has earned the Enviro brand an excellent reputation in National and Global Market for Specialised applications.

**Booth: A-5, Hall - 5**

**ERWEKA GmbH**

Ottostr. 20 - 22 63150 Heusenstamm  
HEUSENSTAMM GERMANY  
TEL: +49.6104.690-30  
EMAIL: sales@erwekaindia.com  
URL: www.erweka.com

As a world leader in test equipment for the pharmaceutical and life science industry we design, manufacture, install and service the whole range of physical and dissolution test equipment for pharmaceutical research and quality control.

ERWEKA headquarter in Heusenstamm, Germany ERWEKA is a privately owned international operating company founded in 1951 and has nowadays more than 130 employees worldwide. Our headquarter is located in Heusenstamm near Frankfurt, Germany, where most of our products are manufactured.

We have a distinguished record for high quality products, reliability and excellent customer services.

We offer world wide sales and support in more than 100 countries due to our global presence by ERWEKA authorized local dealers and agents.  
**LOCAL BUSINESS ASSOCIATES:**  
· ERWEKA INDIA PVT. LTD.  
Ahmedabad INDIA

**Booth: A-5, Hall - 5**

**ERWEKA INDIA PVT. LTD.**

29, Sur. No. 415, N.H.No.8A,  
Sarkhej-Bavla Road, Moraiya, Ta.: Sanand,  
AHMEDABAD 382 213 INDIA

TEL: +91.92280.22065  
EMAIL: pragnesh@erwekaindia.com  
URL: www.erwekaindia.com

Erweka India Private Limited is a professionally managed and a dynamic Organization with decade of experience in Pharmaceutical & Analytical Equipments. The company was established in 2001 with sole aim to provide better service to all Users of Erweka products. Being the group company of Erweka GmbH, it is in position to provide much better sales – service support.

Today, Erweka India Pvt. Ltd. manufactures INWEKA brand products at Ahmadabad. Most of the products manufactured under INWEKA brand at Ahmadabad have imported components. This ensures good quality with robust design at economical prices. This combination has resulted in great success and today INWEKA products are being sold to many small and medium pharmaceutical manufactures. Whereas all leading companies and MNC, still opt for ERWEKA because of various in built features and automation for compliance to various regulatory authorities.

**Product Range:**

- Tablet Hardness Tester
- Dissolution Tester
- Disintegration Tester
- Friability Tester
- Leak Tester, etc.

**FOREIGN PRINCIPALS / LOCAL BUSINESS ASSOCIATES:**

- ERWEKA - Germany
- Filtra - Barcelona
- PAMAS - Germany
- Kraemer - Switzerland
- Puris - South Korea
- STEINFURTH - Germany

**Booth: B-4, Hall - 5**

**FABTECH TECHNOLOGIES INTERNATIONAL LTD.**

717, Janki Centre, Off. Veera Desai Road, Andheri West  
MUMBAI 400 053 INDIA  
TEL: +91.22.2619.2900  
EMAIL: rs@fabtecheng.com  
URL: www.TurnkeyFabtech.com

Leading Provider Turnkey building Solutions (Ready to Plug Buildings) Fabtech Technoglies Specializes in RPB TM which includes Exterior construction, Internal construction with Warrington certified Fire rated Modular Partitions, HVAC, MEP, Cleanroom Equipment, Customized Isolation Systems and Granulation Equipments.

**Booth: G-20, Hall - 1**

**FALCON MACHINERIES**

33, JAY MITRA, VINZOL DROSSING ROAD,  
VATVA,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.25892244  
EMAIL: falconmachineries@gmail.com  
URL: www.falcon-world.co.in

FALCON focused in Tablet Presses, Roll Compactor Machine along with its Punches & Dies / Tablet Tools, Granulation Machines for respective technology, starting from development machineries for innovative formulations up to scale up machineries.

MANUFACTURER & EXPORTER OF PHARMACEUTICAL MACHINERIES:

- ROTARY TABLETING MACHINES
- HIGH SPEED ROTARY TABLET PRESS MACHINE
- DOUBLE SIDED ROTARY TABLET PRESS MACHINE
- SINGLE SIDED ROTARY TABLETING MACHINE
- R&D TABLET PRESS
- MINI TABLET PRESS MACHINE
- SIFTER MACHINE
- COATING MACHINE
- R&D ROLL COMPACTOR
- ROLL COMPACTOR MACHINE
- VACUUM TRAY DRYER
- FLUID BED DRYER
- RAPID MIXER GRANULATOR
- OSCILLATING GRANULATOR
- COLLOID MILL
- MULTI MILL
- TABLET INSPECTION MACHINE
- COMMUNITING MILL MACHINE
- MASS MIXER
- OCTAGONAL BLENDER
- DOUBLE CONE BLENDER
- BURRING & DE-DUSTING MACHINE
- DIES & PUNCHES
- MULTITIP DIES & PUNCHES, etc.

**Booth: H-02/A, Hall - 1**

**FARMO RES S.r.l.**

Via dell'avoro, 9 - Montaletto di Cervia, zonaindustriale – 48015, Cervia (RA) - ITALY  
Cervia (RA) 48015 Italy  
TEL: +39.0544.965388  
EMAIL: info@farmores.com  
URL: www.farmores.com

**Products / Services offered:**

With over 50 years experience on the world market in automatic thermoforming machinery, FARMO RES manufactures automatic user friendly machines for packing pharmaceutical products such as, vials, ampoules, syringes and other various small products, all conform to worldwide regulations of the highest quality and standards. Our vertical forming machines for suppositories, ovules and unit doses complete the FARMO RES range of machines for the pharmaceutical market. The company know-how also extends to packing cosmetic and food products with customized machines manufactured ad hoc according to the customer's requirements.

**FOREIGN PRINCIPALS / LOCAL BUSINESS ASSOCIATES:**

- INCOME Group
- Mumbai INDIA

**Booth: G-11, Hall - 1**

**FILL PACK PHARMA MACHINERIES**

11, Shyam Ind. Estate Machineries  
Phase-1, GIDC, Vatva,  
AHMEDABAD 382 445 INDIA  
TEL: +91.99743.45254, +91.81287.67434  
EMAIL: fillpack@ymail.com  
URL: www.fillpackmachine.in

**Manufacturer of all type of Pharmaceutical Packaging Machineries like:**

- All types of POWDER / LIQUID FILLING
- SEALING / CAPPING (ROPP- SCREW) or ALUMINIUM FLIP OFF
- Wet Glue or Self Adhesive Sticker LABELING (ROUND-DOUBLE SIDE-FLAT SINGLE SIDE-HOLOGRAM APPLICATION, etc.
- Semi CARTONING

- Customer base Tailor Made Machine Manufacturer

**Booth: A-5, Hall - 5**

**FILTRA VIBRACION S.L**

C/Bronce, 1-3. Polígono Industrial Les Guixeres. Badalona. BARCELONA 08915 SPAIN  
TEL: +34 93 395 67 39  
EMAIL: sales@erwekaindia.com  
URL: www.filtra.com

Created in 1988, is a dynamic and consolidated company in his sector. Their professional team, with more than 20 years of experience, is specialized in the manufacturing of sieves, laboratory and industrial sieving machines, blenders and all kind of filters, with the purpose of satisfying the exigencies of our customers, keeping the best quality in our products.

As suppliers, we have an important stock of metallic meshes, perforated plates and synthetic woven. We have a testing laboratory to prove the customer's products to choose the better machine for your products. In 2003, as a result of normalization process and internal adjustment, a laboratory of mesh and perforated plate tests was implanted to test any existing sieve in the market.

**LOCAL BUSINESS ASSOCIATES:**

- ERWEKA INDIA PVT. LTD.
- Ahmedabad INDIA

**Booth: B-5/B, Hall - 5**

**FLUIDPACK**

I-4116, PHASE IV, G.I.D.C., VATVA,  
AHMEDABAD 382445 INDIA  
TEL: 079-40237888  
EMAIL: info@fluidpack.net, bipinchawda@fluidpack.net  
URL: WWW.FLUIDPACK.NET

Fluidpack is India based tablet press manufacturing compnay. The Tabletpress are manufactred under the brand name ACCURA. Our all machines are having CGMP Compliance. All m/c's are available with PLC & Coloure Touch Screen also.

FLUIDPACK have a pressnce in international market in almost 55 countries, including EUROPE & USA.

FLUIDPACK have expertise in tableting machines & have a large range of tableting macines suitable to almost all type of requirements. The company is having excellent service & spares supply records.

**CONTACT:**

Mr. M.M.PANCHAL (+91.98250.33305)  
Mr. BIPIN CHAWDA (+91.93275.78371)

**Media**

**FOUR SQUARE MEDIA PVT. LTD.**

PLOT NO.2, 2ND FLOOR,  
DDA LOCAL SHOPPING COMPLEX,  
NEAR SANT NIRANKARI PUBLIC SCHOOL,  
DR. MUKHERJEE NAGAR,  
DELHI 110 009 INDIA  
TEL: +91.11.27606073 / 74 / 75  
EMAIL: info@foursquaremedia.co.in  
URL: www.businessnewspapers.net, www.99business.com

**Corporate Office:**

Mumbai: +91.022.2529 2947 / 948 / +91.93211.50077

Four Square Media Pvt. Ltd. (An ISO 9001-2008 Certified Co.) established

in 1987, publishing 12 Business Newspapers. 'Pharma & Chemical world is among one of them. A monthly journal devoted to Pharma & Chemical World that covers almost the whole world of chemicals and Pharmaceuticals & product spectrum. This paper remains present on the tables of manufactures and dealers. It covers hundreds of new Indian equipments / machines / materials related to Chemical & Pharma World, new technologies / developments in the industries. Current market trends, preview and review of fairs, Information about export & import contracts related to Chemical & Pharma World. Latest national and international news related to Pharma & Chemical. New govt. policies and much more useful information about this.

Contact: Mr.R.K.Saxena +91 9313577644.

**Booth: H-07, Hall - 1**

**Freund Corporation**

Shinjuku TX Bldg., 1-3-21, Okubo, Shinjuku-ku,  
TOKYO 169-0072 JAPAN  
TEL: 81-3-5292-0245 / 228  
EMAIL: ke-maeda@freund.co.jp  
URL: http://www.freund.co.jp

Manufacturer of complete line of Laboratory granulation & coating equipments ideally suited for product research, development and formulation of solid dosage products.

**FOREIGN PRINCIPALS / LOCAL BUSINESS ASSOCIATES:**

- PARLE ELIZABETH TOOLS PVT. LTD.
- Mumbai INDIA

**MEDIA**

Global Vision  
26-B, Rebellow Cottage,  
Gaondevi Road, Poinsur East, Kandivali  
MUMBAI 400 101 INDIA  
TEL: +91.22.2870.1520 / 1848  
EMAIL: info@pharmamachines.com  
URL: www.pharmamachines.com

Pharma Machines & Technology brings in a world of difference to drug manufacturing in India through its path-breaking exclusives on quality movements the world over.

Pharma Machines & Technology, a specialized magazine from the house of Global Vision, is a familiar name in the pharma industry for its outstanding industry promotional efforts through Expo Specials at various national and international pharma exhibitions. This bimonthly magazine has over the years emerged as the smartest choice of Indian pharma to know the technological developments and quality movements in drug manufacturing, and to source the machinery and technology that suits their plant and budget. The magazine features the best of the machines from reputed manufacturers and suppliers of pharmaceutical machinery in India, and displays at major international exhibitions and conferences in India and overseas round the year.

**Booth: E-07B, Hall - 1**

**GMP EQUIPMENTS PVT. LTD.**

(GMP MACHINERIES & PACKAGING)  
302, Ashirwad Paras,  
Corporate Road, Near Prahladnagar,  
AHMEDABAD 380 015 INDIA  
TEL: +91.79.2970.1881  
EMAIL: piyush@gmpmachine.com  
URL: www.gmpmachine.com

GMP is a leading manufacturer and a major exporter of liquid machineries in the pharmaceuticals industry.

The company has an impressive range of products to suit the varies needs of the customers such as:

- Liquid Oral Packaging
- Liquid Oral Processing
- Automatic Linear Bottle Washing Machine
- Automatic Volumetric Liquid Filling Machine
- Rotary Piston Filling-cum-Sealing Machine
- Automatic Multi-Head Capping / Sealing Machine
- Automatic Dozing Cup & Pressing Machine
- Packing Conveyor Belt
- Automatic High Speed Labeling Machine
- Filter Press / Pumps
- Tanks / Manufacturing Vessels
- Slat Conveyor Belt
- Stirrer / Homogenizer
- Batch Coding Machine
- Automatic Vial Filling & Vial Sealing Machine

Also we supplies a variety of pharmaceutical and chemical equipment. Product lines include:

- Tablet Compression
- Fluid Bed Dryers
- Granulation & Coating
- Tablet Testing
- Liquids
- Ointments
- Creams & Powders
- Capsules Filling Machines
- Dryers
- Blenders etc.

At "GMP", the products manufactured are of international standard characterized by accuracy, reliability and durability.

**Booth: E-07/C, Hall - 1**  
**GMP TECHNICAL SOLUTIONS PVT. LTD.**

309/316 Swastik Disha Business Park  
Wadhani Industrial Estate, LBS Marg  
Ghatkopar (West),  
MUMBAI 400 086 INDIA  
TEL: +91.22.6116.4846  
EMAIL: ravi.thakur@gmptech.net  
URL: www.gmptech.net

GMP Technical Solutions are the Asia's Largest manufacturers and suppliers of World Class cleanroom Partition Systems & Turnkey Solution Provider for Pharmaceutical & Biotech Industries, Laboratories Furniture, Biosafety Cabinets, Isolators.

- Clean room Modular Partitions
- Project Management
- HVAC (Design, Supply & Installation)
- Integrated Building Management System (IBMS)
- Pharma Equipment & Water System.
- Clean room Validation Services

**Booth: G-32, Hall - 1**  
**HARIKRUSHNA MACHINETECH PVT. LTD.**

306, 3rd Floor, THIRD EYE - 2,  
Opposite Parimal Garden,  
Near Panwati Cross Roads, C. G. Road,  
AHMEDABAD 380 006 INDIA  
TEL: +91.79.2646.3903

EMAIL: marketing@harikrushna.com  
URL: www.harikrushna.com

HARIKRUSHNA MACHINETECH PVT. LTD. is one of the most preferred & trusted solution provider for packaging requirement. We are engaged in manufacturing & exporting of advanced packaging machinery, Pharma machinery & material handling equipments.

HARIKRUSHNA Machinetech Pvt Ltd is head quartered at Ahmadabad India, one of the most preferred business hubs across the globe. We have two state of art & advanced manufacturing units in Ahmadabad & outskirts of Ahmadabad.

We are an ISO 9001-2008 certified organization & the first organization in India to supply advanced labeling machine with CE certification.

We have proud patronage of around 5000 & above installation across globe few of them are Dr.Reddy Lab Ltd., Claris Life Sciences, Cipla Ltd., Marck BioScience, Ranbaxy, Glenmark Pharma, Lupin Ltd., Cadila-Zydus, Sun Pharma, Abarish HealthCare to name a few.

We have fleet of talented professionals & engineers to ensure prompt & the best pre & post sales services.

**Booth: D-2, Hall - 5**  
**HARSIDDH INDUSTRIES**

2204, Phase-IV  
Near Ramol Cross Road, G.I.D.C. Vatva,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2584.0075  
EMAIL: jayesh@harsiddhind.com  
URL: www.harsiddhind.com

HARSIDDH INDUSTRY" established in the year 1987. The company has completed almost two decades now in the field of manufacture of Pharmaceutical Machinery. The company is headed by Mr. P. M. Mistry. Mr. Jayesh Mistry son of Mr. P. M. Mistry also occupies the office and shouldering complete responsibilities right from manufacture, sales, after-sales services, follow up and so on.

Initiated with manufacture of Automatic Single Head Vertical Ampoule Filling-Sealing Machine, with the pace of time "Harsiddh" has introduced following machines in their product range:

- Automatic Linear Vial Washing Machine
- Automatic Rotary Vial/Ampoule Washing Machine
- Automatic Air Jet Cleaning Machine for Jar / Bottle
- Automatic Bottle Washing Machine
- Automatic Vial/Ampoule External Washing Machine
- Automatic Label Counter
- Automatic Tablet / Capsule Elevator
- Automatic Leaflet Pasting Machine
- Automatic Vertical Ampoule Filling & Sealing Machine
- Semi Automatic Rotary Cartoning Machine
- Conveyors & Turn Table

**Booth: B-3, Hall - 5**  
**HYDROPURE SYSTEMS**

412, Diamond Industrial Estate, Dahisar East,  
MUMBAI 400 068 INDIA  
TEL: +91.22.2897.8725 / 2897.9097  
EMAIL: info@hydropure.in  
URL: www.hydropure.in

Mumbai, India based manufacturers of:

- PW GENERATION & DISTRIBUTION
- WFI GENERATION & DISTRIBUTION SYSTEMS

- POINT OF USE COOLERS / SAMPLING SYSTEMS
- RO EDI PLANTS
- WWTREATMENT & RECYCLE PLANTS
- INDUSTRIAL WATER TREATMENT PLANTS

**Booth: H-02/A, Hall - 1**  
**INCOME MARKETING PVT. LTD.**

406, The Sangeet Plaza,  
598, Marol Maroshi Road,  
Marol, Andheri (East),  
MUMBAI 400 059 INDIA  
TEL: +91.22.6702.4243  
EMAIL: projects@incomegroup.in  
URL: www.incomegroup.in

INCOME - A premier marketing and service organization established in the year 1983 involved in marketing and servicing of high technology equipments for Processing and Packaging of Pharmaceutical, Food processing and Cosmetic industries in India. It includes Compact Sterile Liquid / Lyo / Powder Filling Lines, PFS Filling machines, Blister Cartoning Machines, Strip / Sachet packing machines for Tablets, Capsules, powders, granules, liquids etc. We also deal in Automatic Capsule Fillers, TDS Oral Film Coating Machines, Cream Ointment Processors, Isolation Technology, Steam Sterilizers, Vial Ampoule inspection machines, X Ray Inspection Machine, Automatic labeling system, compact flow wrapper & thermoforming machines for suppositories ovules and unit doses.

- FOREIGN PRINCIPALS:
- Romaco Pharmatechnik GmbH - Germany
  - Romaco Srl - Italy
  - Steriline Srl - Italy
  - MG2 Srl - Italy
  - CMP Srl - Italy
  - Perfect Pack Srl - Italy

**Booth: F-03A/2, Hall - 1**  
**INDUSTRIAL EQUIPWASH INC**

8/B, SURAT SINGH INDUSTRIAL ESTATE,  
NEAR AGRAWAL ESTATE, S.V.ROAD,  
JOGESHWARI (W),  
MUMBAI 400 102 INDIA  
TEL: +91.22.2679.7941  
EMAIL: iewi@mtln.net.in, iewi@vsnl.net  
URL: www.iewi.net

M/s INDUSTRIAL EQUIPWASH INC. are India's leading manufacturers of sanitary stainless steel piping, cleaning & sanitising equipment, customised aseptic process equipment & clean room accessories for the pharma, bio-pharma, food, beverage, cosmetics, breweries, dairy & allied industries.

**Booth: F-6B, Hall - 1**  
**INOXPA INDIA PVT. LTD.**

S.No. 83, Hissa No 2/6/A, Anant Industrial Estate, Shivane  
PUNE 411 023 INDIA  
TEL: +91.20.6470.5490  
EMAIL: rahul.in@inoxpa.com  
URL: www.inoxpa.in

INOXPA - A Spanish multinational company headquartered at Banyoles, Spain started their operation in India under the name of Inoxpa India Pvt. Ltd. INOXPA was founded in 1972 at Banyoles, Spain and has more than 100 distribution points in 5 continents.

INOXPA is pioneered in manufacturing of world class industrial

equipments like Pumps, Mixers, Agitators, Valves & Fittings for Food-processing, Dairy, Pharma, Cosmetics and Wine-making sectors.

FOREIGN PRINCIPALS:  
Inoxpa S.A. - Spain

**Booth: C-22, Hall - 5**  
**INTEGRATED CLEANROOM TECHNOLOGIES PVT. LTD.**

# 403-406, Sree Vensai Towers,  
Varuna Block, Kompally,  
RANGA REDDY DISTRICT  
HYDERABAD 500 014 INDIA  
TEL: +91.40.2716.5311  
EMAIL: gopalreddy@icleantech.com  
URL: www.icleantech.com

Integrated Cleanroom Technologies Pvt Ltd (ICLEAN) is the leading Cleanroom Manufacturer from India, providing total cleanroom solution on turnkey basis. ICLEAN is a one stop solution provider for design, manufacture, installation, commissioning & validation of complete modular cleanrooms along with seamlessly integrated HVAC system. Product list include Cleanroom Accessories, Lab Furniture, Fume hoods, Air Handling Units including HVAC, BMS, and Electrical etc. we undertake jobs for Class-100,000 to Class-100 cleanrooms. Products are manufactured in fully computerized state-of-the-art facility, with special focus on ensuring the highest quality, reliability and superior service right from concept to commissioning and beyond.

**Booth: C-28, Hall - 5**  
**ISHIDA INDIA PVT. LTD.**

382, Ground Floor, Udyog Vihar, Phase II,  
GURGAON 122 016 INDIA  
TEL: +91.124.385.4392  
EMAIL: sales@ishidaindia.co.in  
URL: www.ishidaindia.com

Ishida India - Reliable Partners for Industry  
A company that provides products and solutions for weighing, packaging, inspection and detection, Ishida India caters to the needs of all types of industry, from food to manufacturing and retail to chemical.

Ishida India, which is a 100% subsidiary of Ishida Japan, commenced its Indian operations in April 2007 covering markets in India, Bangladesh, Nepal and Sri Lanka. A pioneer in Weighing and Packaging systems with an installation base spanning over 3,500 systems, over the past 5 years, Ishida India has added products like Platform scales, Laboratory Balances, Moisture Balances, Weigh Bridges, and Tank weighing systems to its portfolio.

For Pharmaceutical Industry Ishida India has Complete Value Proposition from Quality Control to Shipping. All Product of Ishida India are designed to achieve lowest down-time and best ease of use in the Industry.

FOREIGN PRINCIPALS:  
· Ishida - Japan

**Booth: D-6/A, Hall - 1**  
**IUS EQUIPMENTS PVT. LTD.**

W-161, PAWANE, MIDC,  
TTC INDUSTRIAL AREA,  
NAVI MUMBAI 400 705 INDIA  
TEL: +91.22.6511.6626-29  
EMAIL: info@iusindia.com, jitu@iusindia.com

URL: [www.iusindia.com](http://www.iusindia.com)

IUS Equipments Pvt. Ltd. EVER since its inception in 1998, the company has been a trendsetter in creating benchmarks for the ENGINEERING EQUIPMENTS in respect of its processes. Today, after more than a Decade of existence, IUS has emerged as one of the pioneer company in the segment for executing various projects for pharmaceutical industries right from conceptual front end engineering study to detailed designing, fabrication, installation & commissioning of system & equipments which complete automation. All these has been achieved through our continuous Perseverance, hard work, research in product design, adherence to quality and our total commitment to business ethics. The determined efforts of our dedicated team have gained us global reputation & reliability.

**LIST OF ACTIVITY:**

- USP Grade Purified Water Generation
- Storage & Distribution System
- WFI Storage & Distribution System
- Sterile mixing Vessels
- Tanks
- Bio-reactors & Heat Exchangers
- UFS
- CIP/SIP
- Sanitary Tubes
- Fittings & Valves
- Electropolishing Services
- Orbital Welding
- Boroscopy

**Booth: B-12/A, Hall - 5**

**JAYSHREETABLET SCIENCE**

Plot no.8, Dev Estate,  
GIDC, Phase-I, Vatwa  
AHMEDABAD 380 007 INDIA  
TEL: +91.79.6512.5794  
EMAIL: [info@jpeq.com](mailto:info@jpeq.com)  
URL: [www.jpeq.com](http://www.jpeq.com)

We are manufacturer and exporter of tablet dies & punches for Rotary Tablet Press. We also deal with tablet press machines and allied Pharmaceutical Machinery. We serve to Pharmaceutical, Ayurvedic, Confectionery, Ceramic, Chemical Industries.

**Booth: G-02, Hall - 1**

**JEKSON VISION PVT. LTD.**

304, Sarkhej Bavla Highway, Changodar  
AHMEDABAD 382 213 INDIA  
TEL: +91.93748 82657 / +91.90999.31002 / 03  
EMAIL: [sales@jeksonvision.com](mailto:sales@jeksonvision.com)  
URL: [www.jeksonvision.com](http://www.jeksonvision.com)

Jekson Vision is the worlds leading provider of Machine Vision Inspection Systems for Pharmaceutical Companies having its key focus on providing machine vision for industrial automated inspections. We have an unmatched passion for innovation thereby helping our customers benefit from our extensive experience in Pharmaceutical industry. In a decade the company has added more than 200 satisfied tier one pharmaceutical companies to its of satisfied customers. With operations from USA, Missle East (Dubai, UAE) and India, the company has installed more than 2000 systems globally.

**Booth: D-9, Hall - 5**

**JICON INDUSTRIES**

37-D, Sarita Estate, Jarimari, Sakinaka,

MUMBAI 400 072 INDIA

TEL: +91.22.2851.0398  
EMAIL: [jicon.info@jicon.com](mailto:jicon.info@jicon.com)  
URL: [www.jicon.com](http://www.jicon.com)

JICON INDUSTRIES was founded in 1984 by young engineering entrepreneurs with the aim to manufacture machineries required by pharma, food, cosmetics and allied industries. Over last three decades the company has progressed from manufacturing of simple machines like dry powder mixers to manufacturing of sophisticated automatic packaging machines.

Our major products include High Speed Blister Packing Machines, Flat Bed Blister Packing Machines, High Speed Automatic Capsule Filling Machines and Tube Filling Machines.

**Booth: G-14B, Hall - 1**

**JUNE ENTERPRISES PVT. LTD.**

UNIT # 7, PLOT # R- 798, HASTI INDL ESTATE,  
SHIL RAOD, MAHAPE,  
NAVI MUMBAI 400 701 INDIA  
TEL: +91.22.2778.3025 - 29  
EMAIL: [ksheth@june4gmp.com](mailto:ksheth@june4gmp.com)  
URL: [www.june4gmp.com](http://www.june4gmp.com)

June Enterprises is Imports and distributes thousand of products that meets critical manufacturing, Industrial, Pharmaceuticals, Hospitals and food standard.

**Products Range includes:**

- Sterilization Indicators & Validation
- Critical Clean Room Cleaning
- Clean Room Consumables likes:
  - o Clean Room Writing Accessories
  - o Autoclavable Spray Bottle & IPA Products
- Clean Room Protective Wears like
  - o Sterile / Non Sterile Gloves
  - o Garments
  - o Autoclavable Goggle
  - o Shoe

- Critical Products for manufacturing area like Pouch Sealing Machine
- Clean Room Fogger Stainless Steel Tools
- Fluid Transfer Products

**Booth: D-5/B, Hall - 5**

**KAIZEN INTERNATIONAL**

27, Ground Floor,  
Dewan & Shah Indl. Estate,  
Navghar,  
VASAI East 401 210 INDIA  
TEL: +91.250.239.3103  
EMAIL: [info@kaizenint.com](mailto:info@kaizenint.com)  
URL: [www.kaizenint.com](http://www.kaizenint.com)

We are the manufacturer of Tablet Dies & Punches designed for a range of industries such as Pharmaceuticals, Ayurvedic, (Nutraceutical), Veterinary, Cosmetics and Confectionery.

**Booth: G-08, Hall - 1**

**KAMAL (E) INDUSTRIES**

C/o COLLAGE COMMUNICATIONS  
2, MANDAR C.H.S.  
193, TURNER ROAD, BANDRA (WEST)  
MUMBAI 400 050 INDIA  
TEL: +91.98200.01555

**Trusted Gateway to Complete Liquid Packaging Solutions**



**Corporate Office**  
306, 3rd Floor, Third Eye-2,  
Opp. Parimal Garden,  
C.G. Road Ahmedabad - 380 006  
(Gujarat) India.  
Tele : +91-79-2646 3903-4-5-7  
Cell: +91 98250 49429  
E-mail : [marketing@harikrushna.com](mailto:marketing@harikrushna.com)  
URL : [www.harikrushna.com](http://www.harikrushna.com)



Manufacturer & Exporter  
of Liquid Packaging  
Machineries for over  
**14** years.

Packaging machineries  
useful for  
Pharmaceuticals,  
Cosmetics, Food & Dairy,  
Pesticides,  
Beverages & Distilleries.

Trust worthy installations  
of over **5800+** Machines  
in **49** Countries Worldwide.

EMAIL: kamaleindustries@gmail.com  
URL: http://www.keimachines.com

KAMAL (E) INDUSTRIES is a Manufacturer and Exporter of processing and packaging machinery. Established decades ago, the company has made a name for itself in the Pharma, Cosmetic, F&B and Chemical Industries as a dependable supplier for reliable equipments and timely deliveries.

It is a proprietorship firm run by Mr. Anand Ratna a Management Consultant by profession.

Initially specializing in pharma- Capsule / Tablet / Liquid / Ointment & cream sections KEI diversified into F&B, Chemicals and Cosmetics making the brand KEI compatible in related industries.

The unit has exported products to the continents of Europe, Americas, Africa & Asia.

Believing in the concept that the better the product, the more the demand, KEI always innovates it's products. Taking into account the needs of customer, it provides tailor made solutions to clients thereby saving them a great deal in their overall costs.

**Booth: G-01, Hall - 1**

**KITTEN ENTERPRISES**

W407, TTC Industrial Area,  
Near Hamara Mahanagar Press, Rabale MIDC,  
NAVI MUMBAI 400 701 INDIA  
TEL: +91.22.2764.9201  
EMAIL: bparekh@kitten.co.in  
URL: www.kitten.co.in

Kitten has been pioneers in Marketing & Manufacturing of Industrial Filters, Clean-Room Products & Sterilization Packaging Material and since then there has been no looking back. Even being a mid size company our world class innovative products and highly efficient customer services make up pioneers of this respective market. We take Pride in our ability to propose tailored and abrupt solutions for the challenges coming from our valued clients -

LET IT BE AN EXTREMELY LARGE INVENTORY OF THE HIGHEST QUALITY PRODUCTS OR TIGHT DEADLINES OF DAYS AND SOMETIMES EVEN HOURS.

Kitten being an ISO 9001:2008 Certified Company assures that there clients gets the quality & delivery of their products just as per their requirements.

Our Customers are from different industries such as Pharmaceutical, Biotech, Alcoholic & Non-Alcoholic Beverages, Chemicals, Paint & Ink, Automotive and Fluid Processing Industries. They all hold a very special space for us hence we endeavor not only to meet but exceeds their expectations. We want to go beyond our clients expectations and provide them more quality, standard and efficiency while dealing with kitten!

**FOREIGN PRINCIPALS:**

- Carlson Filtration Ltd - UK
- Ahlstrom - Italy
- Amcor Flexible - France

**Booth: A-17 + A- 18, Hall - 5**

**KLUBER LUBRICATION PVT. LTD.**

1st Floor, Silver Jubilee Block,  
3rd Cross, Mission Road,  
BANGALORE 560 027 INDIA

TEL: +91.80.3076.6067  
EMAIL: kasturi.baruah@in.klueber.com  
URL: http://www.klueber.com

Klüber Lubrication is a leading manufacturer and marketer of Speciality Lubricants with German origin having worldwide presence of more than 75 years.

Klüber Lubrication München Kg, Germany brings our services closer to you with its Klüber Lubrication India Pvt Ltd, an 100% Indian subsidiary Head Quartered in Bangalore and State of the Art Manufacturing plant in Mysore along with Sales Teams across India.

With more than 3500 products available around the world, you can be sure that Klüber has the right product for your application, as we work very closely with our customers as their partners to understand their tribological requirements and offer best suited lubrication solutions.

**Booth: B-7, Hall - 5**

**KONARK MACHINE TOOLS**

PLOT NO.1, ANAND NAGAR,  
OPP. SILVER STAR MULTI COMPLEX,  
Near RAMDEV PIR MANDIR, CHANDLODIA,  
AHMEDABAD 382 481 INDIA  
TEL: +91.79.2760.2212 / 2068  
EMAIL: konarklabelling@gmail.com, info@konarklabelling.com  
URL: www.konarklabelling.com

**RANGE OF PRODUCT**

- AUTOMATIC INJECTABLE LIQUID FILLING LINES
- AUTOMATIC DRY SYRUP POWDER FILLING LINES
- AUTOMATIC ORAL LIQUID PACKAGING / FILLING LINES
- AUTOMATIC AND SEMI-AUTOMATIC LIQUID ORAL MFG. PLANT

**COUNTRIES OF EXPORT:**

BANGLADESH, NEPAL, PAKISTAN, SRILANKA, DUBAI, IRAQ, MALAYSIA, RUSSIA, UK, KENYA, GHANA, NIGERIA, CANADA, UGANDA, MALAWI, CYPRUS, BHURUNDI, CONGO, TURKEY, SUDAN, YEMEN, ALGERIA, etc.

QUALIFICATION CERTIFICATION: ISO 9001 : 2008

**ABOUT THE COMPANY:**

KONARK IS ONE OF THE FOREMOST MFG. & EXPORTER OF PHARMACEUTICAL PACKAGING & PROCESSING MACHINERY IN INDIA SINCE 1986 & SERVING TO PHARMACEUTICALS, FOOD & BEVERAGES, COSMETIC, PESTICIDES & VETERINARY INDUSTRIES. THE MACHINES ARE MFG. AS PER CURRENT GMP NORMS & WELL ACCEPTED IN DOMESTIC AND INTERNATIONAL MARKET. KONARK FOCUSES ON NEW PACKAGING & PROCESSING TECHNOLOGY TO PROVIDE BETTER SOLUTION TO THE MARKET. OUR MISSION IS GROWTH & 100% CUSTOMER SATISFACTION.

**MEDIA**

**KONGPOSH Publications Pvt. Ltd.**

C-19, Commercial Complex,  
S.D.A. Market, Opp. I.I.T. Main Gate,  
NEW DELHI 110 016 INDIA  
TEL: +91.11.2685.5839  
EMAIL: kongposhpvt@gmail.com  
URL: www.kppub.com

KONGPOSH Publications are one of India's leading Pharma Publishers. The Pharma Review® is a bi-monthly article based journal. Covering news, views and articles on various fields of pharmacy including Clinical Trials, Biotechnology, Review/Research papers, Herbal

Medicine and much more. Participation and distribution in over 20 Expos & Conferences worldwide each year. It is widely read by decision makers, middle management and the academia. Also available on our website and E-book format.

Indian Pharma Reference Guide (Annual) – Names and address of Pharmaceuticals, Bulk Drugs, Machinery's & Instrumentation, AYUSH Manufacturers; and much more;  
For more details please visit our website www.kppub.com

**Booth: B-19 / A, Hall - 5**

**KOTHARI PHARMA TECHNOLOGIES PVT LTD**

1-B, KT INDST. PARK, GAURAI PADA,  
VASAI EAST, MUMBAI Dist. THANE 401 208 INDIA  
TEL: +91.250.245.7011  
EMAIL: chandrakant@precikot.com  
URL: www.precikot.com

KOTHARI PHARMA TECHNOLOGIES PRIVATE LTD is one of the leading manufacturers of Pharmaceutical Formulation & packaging machines. We cover almost all the machinery required by Pharmaceutical Formulation company & Cosmetic company, namely for Ointment, Tabling, Liquid Oral, and Injectable section.

We manufacturer products like Ointment Cream Mfg Plant, Liquid Oral Process Plant, Fluid Bed Dryer, Rapid Mixer Granulator, Octagonal Blender, Storage Tank, Manufacturing Vessels with Magnetic Stirrer and much more. The advantages of these machines are, they are flexible configured with simple operation and user friendly operated. For more details visit www.precikot.com

**Booth: A-5, Hall - 5**

**Krämer AG Bassersdorf**

Grindelstrasse 23, CH – 8303 Bassersdorf  
SWITZERLAND  
TEL: +41.44.838.4466  
URL: www.kraemerag.com

The original since 1975. From the inventors of tablet dedusting. Truly Swiss made.

Krämer is the leading specialist in the field of dedusting applications, and we have pioneered and set trends since the invention of the first tablet dedusters more than thirty years ago. Over 5000 Krämer dedusters ensure a smooth operation daily at the sites of hundreds of pharmaceutical companies, ranging from multinationals to small local manufacturers of tablets and capsules. Our customers appreciate the quality and reliability of our equipment.

Our solutions offer superior performance and low costs over the whole product life-cycle.

Our worldwide network with more than forty representatives allows us to maintain close ties with all users, resulting in optimum service and support.

**Kraemer Product Range:**

- Stand alone Dedusting & Deburring machines.
- Combined units with Metal Detector
- WIP system (Wash in Place)
- Eco Line

**LOCAL BUSINESS ASSOCIATES:**

- ERWEKA INDIA PVT. LTD.
- Ahmedabad INDIA

**Booth: B-8/A, Hall: 5**

**LABINDIA EQUIPMENTS**

201, Nand Chambers,  
LBS Marg, Near Vandana Cinema,  
Thane (West) 400 602 INDIA  
TEL: +91.22.2598.6250 / 6054  
EMAIL: dharma@labindia.com, dsouzaj@labindia.com  
WEB: www.labindia-equipments.com

Under its expansion and diversification program, LABINDIA ANALYTICAL INSTRUMENTS has entered the packaging machinery market for Pharma, Food and Cosmetics as LABINDIA EQUIPMENTS. Our machines include:

- Horizontal/Vertical Cartoning Machine
- Card Blister Machine
- Format Parts for any make of Blister & Cartoning Machine
- Pre-Filled Syringes Assembly Line (PFS)
- I.V. Infusion Plant Machinery
- BFS Machine for Saline & WFI
- High Speed Ampoule & Vial Filling and Sealing Lines
- Automatic Ampoule / Vial Inspection Machine
- Lyophilizer (0.5-50 sq.m.) & also Special purpose Automation in Packaging

We manufacture machines as per the latest cGMP norms under Design and Quality control by Labindia Design Team. We also provide all spares service support. We also import some machines via an OEM tie-up with leading overseas companies. We have successfully installed Cartoning machines for packing of Blisters, Plastic containers & Candles, Blister machines for PFS and ampoules, Card blister machine for the brand Sugar Free & many more.

**Booth: C-26, Hall - 5**

**LAXMI ENGINEERING EQUIPMENT**

5/34, Bombay Conductor Road,  
Opp Maruti Ind Estate, Phase 1, Vatva G.I.D.C.  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2589.3877  
EMAIL: laxmiengineering1@yahoo.co.in  
URL: www.laxmipharma.net

LAXMI ENGINEERING EQUIPMENT is engaged in the manufacturing of automatic bottle, vial or any container filling equipment since 1985 with a committed team of acknowledged and expert veteran technocrats. Intense industrial exposure and well framed quality systems are the pillars of success of the organization since foundation. Today LAXMI ENGINEERING EQUIPMENT serves the industry as a leader thanks to its flair for strong customer commitment and transparent & ethical values which have earned us a distinctive edge over the other player.

Apart from bottle & vial filling machines we have been leading in the manufacturing of bottle washing machine, liquid filling machine, powder filling machine, tablet filling, ROPP / screw Capping machine, aluminium cap sealing machine, sticker labelling machine, carton sticker labelling machine & many more which efficiently serves the distinctive requirement of pharmaceutical, cosmetic, chemical, food & beverages, pesticide, ayurvedic & herbal care industry.

**Mission:**

We aim to establish ourselves as leading multinational with constant quality improvements and continual technological up gradation which would serve the consumers with highest quality products and a surplus satisfaction. We will achieve the goal by expanding the

operation to larger scale which would increase our production capacity and by implementation of strict quality control standards which would ensure highest quality products.

**Experience & Expertise:**

Backed by a strong network of veteran technocrats we have been serving the industry for more than 25 years. Time by time we have surpassed the milestones of benchmark performance and have set new milestone for the industry. In the flamboyant journey last 25 years we have always regarded customer satisfaction as primal commitment, UN ending list of achievements have followed us as a consequence.

**Booth: C-25, Hall - 5**

**LAXMI PHARMA EQUIPMENT**

Laxmi Pharma Equipment  
Plot No 1314 Phase III, G.I.D.C.Vatva  
AHMADABAD 382 445 INDIA  
TEL: +91.79.2583 1600  
EMAIL: laxmipharma1@yahoo.co.in  
URL: www.laxmipharmaequipments.com

Leading manufacturer and exporter of pharmaceutical machinery including vial filling machine, bottle filling machine, liquid filling machine, powder filling machine, vial sealing machine, ampoule filling machine, ropp capping machine, screw capping machine, aluminum cap sealing machine, sticker labeling machine etc. for pharmaceutical, cosmetic, chemical, food, ayurvedic, herbal and pesticide industry.

**Booth: F-02A, Hall - 1**

**MAHARSHI UDYOG**

4, Ruchi, 36, Swatik Society, Navarangpura,  
AHMEDABAD 380 009 INDIA  
TEL: +91.79.2642.4883  
EMAIL: info@maharshi.com  
URL: www.maharshi.com

Maharshi is synonyms for the labelling machine for more than 3 decades. We cater various industries for their packaging solutions including following product range.

**Products Range:**

- Sticker labeling machines 10-600 products / Min.
- Self - Adhesive sticker label in roll form.
- Liquid filling line with Electronic / Mechanical Filler
- Tablet counting & Filling Line
- I.V. fluid line (for Flexible Bottles)
- Track & trace systems for primary, secondary & Tertiary

**Product Highlight:**

- Unscrambler: For any shape & size of containers without change parts can be supplied with orientation & airjet cleaning.
- Electronic Liquid filling machine: Is a mass flow meter based filling machine doesn't require any change parts to fill volume from 50 ml to 5 liter.
- Monocarton: Maharshi group has initiated MAHARSHI PACKAGING as a part of diversification in our printing division & we involved in manufacturing of the Mono cartons.

**Booth: A-24, Hall - 5**

**MAK ENGINEERS**

801, GIDC, WAGHODIA,  
VADODARA 391 760 INDIA  
TEL: +91.2668.29167  
EMAIL: makengineers01@gmail.com  
URL: www.makengineers.com

Incepted in 2008; MAK ENGINEERS is a leading manufacturer and supplier of blister packaging machines. With a valuable experience of about 20 years we have specialized in designing, engineering and manufacturing of long life equipments with zero maintenance cost and low power consumption. Our range is in great demand due to their robust construction, high efficiency, ease of operation and durability. Our R&D personnel survey the market and accordingly suggest methods on how to further improve the quality of our range of blister packaging machines and precisely meet the changing requirements of our clients. Our robust infrastructure helps us in efficiently meeting the bulk requirements of our clients within a short span of time.

Our strength lies in the state-of-the-art infrastructure which enables us to meet the bulk requirements of our clients. We believe in pursuing ethical business practices and with our fair deals we have gained a huge clientele across all over India.

**Booth: C-34, Hall - 5**

**MARK MAKER PHARMA ENGINEERING**

Gala No.9,A.V. Udyog Nagar,  
Bldg. No.3, B/H Rajprabha Udyog Nagar,  
Golani, Waliv Road,  
Vasai (E) 401 208 INDIA  
TEL: +91.250.329.9093  
EMAIL: sales@markmakerpharma.com  
URL: www.markmakerpharma.com

Mark Maker is pioneer in processing equipments, for pharmaceutical our company has got great achievement in pharmaceutical manufacturing equipment. Specialist in R&D

**LAB GRANULTOR EQUIPMENTS**

**Booth: G-04, Hall - 1**

**MARK VITRAC SYSTEMS**

OFFICE NO.11, 1ST FLOOR, GIRNAR BLDG,  
OPP. DAHISAR POLICE STATION,  
SV ROAD, DAHISAR (EAST),  
MUMBAI 400 068 INDIA  
TEL: +91.22.2897.7078  
EMAIL: info@markvitrac.com  
URL: www.markvitrac.com

Mark VI Trac Systems, located in Mumbai deals specifically in the complete range of Weber GmbH thermal inkjet printers and its related consumables and accessories, which are widely used in pharmaceuticals and printing industry. Weber printers are widely recognised around the world as the most technically advanced and rugged, yet affordable printers. The company markets and provides after sales technical assistance to several satisfied customers & OEMs. Its marketing team, headed by Hemant Malavia who has twenty years of experience in this industry aids the customer in making the right choice while the service team provides the required support.

**FOREIGN PRINCIPALS:**

- WEBER MARKING SYSTEMS GmbH - GERMANY
- XIJET CORPORATION - USA

**Booth: F-07B, Hall - 1**

**MECHTEK**

SHED NO.6, 21/2, 14TH KM,  
OLD MADRAS ROAD, BATTARAHALLI,  
VIRGONAGAR,  
BANGALORE 560 049 INDIA  
TEL: +91.80.2561.9268  
EMAIL: murali@mechtek.in, sales@mechtek.in  
URL: www.mechtek.in

MECHTEK, established in 2004, is a leading Lab Model Blister Packing Machine & Blister Packing Machines Change Parts Manufacturing Company for Pharmaceuticals Industry. We have a manufacturing unit based in Bangalore and a marketing office in Mumbai. MECHTEK's Range of Products:

- Lab Model Blister packing Machines
- EZEE BLIST
- EZEE BLIST - MINI

We, MECHTEK, are known in the industry for our quality-consciousness. We have a thorough testing facility in our lab, every stage of the manufacturing process right from procuring of raw material to dispatch of finished products is overseen by a group of experienced quality inspectors. We keep up with changes in the industry by using the latest CNC machinery and CAD / CAM software. Our machines and change parts have a unique blend of properties to ensure client satisfaction with regard to quality and service. As leading change parts manufacturers we specialize in the supply of high performance machines and Change parts as per GMP standards of Pharmaceutical.

**Booth: B-10, Hall - 5**

**MEDI PHARMA PRO-EQUIP MANUFACTURING CO.**

PLOT NO A 484, ROAD NO 24, MIDC,  
WAGLE INDUSTRIAL ESTATE,  
THANE 400 604 INDIA  
TEL: +91.22.2580.0563  
EMAIL: sales@medipharma.in  
URL: www.medipharma.in

Medipharma Pro Equip Manufacturing Company, is manufacturing and exporting of Pharmaceutical Machineries from complete Tableting line from Granulation to packing (exclude's Blister / Strip packing)

**For granulation equipment like:**

- Sifter
- Multimill
- Paste Kettle
- Rapid Mixer Granulator
- Fluid Bed Dryer
- Octagonal Blender
- Conta Blender
- Tablet Compression: Tableting Machines from R & D model, Bolus, 20 Stn, 35 Stn, 45stn, 55 stn, etc. along the component tooling comprising of punches and dies and service back up team
- Coating: we do manufacture coating pan
- Packaging Section:
- Tablet Inspection Machine
- Deblistering Machine
- Defoiler Machine
- Packing Conveyor
- Electronic Tablet Counting Machine

**Booth: C-34/A, Hall - 5**

**MEHUL TRADERS**

3, Gopal Niwas, 1st Floor,  
133, Princess Street,  
MUMBAI 400 002 INDIA  
TEL: 91-22-22062375 / 66335601  
EMAIL: rasiklal@vsnl.com, bookocean.mehultraders@gmail.com  
URL: www.mehultraders.com

Deals in All types of Pharmaceutical, Medical, Chemical, Chemistry (Organic - Inorganic), Technical, Engineering Books. We are also deals in all international standards & official agents of Bearau of Indian Standards. Specialized in all Pharmacopoeias & Pharmaceuticals Books. We import & Export books across the globe.

**Booth: H-02/A, Hall - 1**

**MG2 SRL**

Via del Savena, 18, 40065,  
Pian di macina di pianoro, Bologna,  
PIANORO 40065 ITALY  
TEL: +39.051.4694111  
EMAIL: sales@mg2.it  
URL: www.mg2.it

**Products / Services offered:**

Lead by the Chairman, Ernesto Gamberini, one of the founding shareholders of the company in 1966, the MG2 Group is a market leader in the design and manufacture of capsule fillers. As well as machines used to dose products into hard gelatine capsules and other small containers, MG2 also manufactures, in the Process Division, complementary production quality control machines and weight control systems. The Packaging Division offers a reliable range of automatic packaging machines for pharmaceuticals, cosmetics and foodstuffs, such as: vertical and horizontal case-packers, forming and filling machines for boxes and trays, palletizers, plunger rod inserting machines.

**LOCAL BUSINESS ASSOCIATES:**

- INCOME Group
- Mumbai INDIA

**Booth: A-5, Hall - 5**

**Mirae St Co., Ltd. (Puris Water Purification)**

RM717, Anyang-Megavalley,  
799, Kwanyang-Dong, Dongan-Ku, Anyang-Si,  
Gyeonggi-Do 431060 KOREA  
TEL: +82.31.420.5753  
EMAIL: sales@erwekaindia.com  
Website: www.miraest.co.kr

Mirae St Co., Ltd. was established in July 1990 as a Human Tech. Co.

We have imported as a trading company in the scientific instruments and also, from that time began to develop a water purification systems.

Now, we have been developing and producing the "Puris" water purification systems for laboratory and process over 10 years and also, we are sure that puris, water systems meet to various customer's needs.

As trading company, we contracted an exclusive agent with ERWEKA GmbH in Germany on December 1996 in each field applications. So, we are selling the instrument in each fields like Pharms, Chemistry, Foods, etc.

The puris, ultrapure water systems received a ISO-9001 and certified CE TUV and EM from Korea Industrial Resource Office. And also, we have been growing up through a satisfactory service and support to meet customer's needs by a worldwide design and a technical know-how of our products.

Mirae ST promise with you we will try for a development of the advanced systems and the best support for customer.

Puris Products:  
Puris Water Purification System

**LOCAL BUSINESS ASSOCIATES:**

- ERWEKA INDIA PVT. LTD.

Ahmedabad INDIA

**Booth: A-14+15, Hall - 5**  
**MISTRY ENGINEERING**

1035-A, Nahar & Seth Industrial Estate,  
Panalal Silk Mill Compound,  
L.B.S. Marg, Bhandup West.  
MUMBAI 400 078 INDIA  
TEL: +91.22.2596.1243  
EMAIL: mistryeng2003@yahoo.co.in  
URL: www.mistryengineering.com

MISTRY ENGINEERING is offering complete solution to its customers in the field of Liquid Packaging with its tailor made quality products as per Customer requirements.

With its clear vision of innovating new products MISTRY ENGINEERING is always committed towards providing quality products and service to achieve Customer Satisfaction.

**Booth: A-4, Hall - 5**

**N. K. P. PHARMA PVT. LTD.**  
1814/B, PHASE III, GIDC, VATVA,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2589.0834  
EMAIL: domestic@nkppharma.com  
URL: www.nkppharma.com

N.K.P. is into the manufacturing and exporting of Pharmaceutical Packaging Machineries and was established in the year 1988. "N.K.P." manufacturers of:

- Injectable Dry Powder Filling Lines
- Injectable Liquid filling Lines
- Dry Syrup Powder Filling Lines, which includes machines like:
  - o Linear & Rotary Type Vial Washing Machines
  - o Filling with Rubber Stoppering Machines
  - o Vial Sealing Machines
  - o External Washing & Drying Machines
  - o Inspection Machines & Sticker Labelling Machines

**Booth: D-8, Hall - 5**

**NEWTRONIC LIFECARE EQUIPMENT PVT. LTD.**

108, ABCD, Kandivali Co-OP. Indl. Estate,  
Near Hindustan Naka, Kandivali (W),  
MUMBAI 400067 INDIA  
TEL: +91.22.2867.9326  
EMAIL: sales@newtronic.in  
URL: www.newtronic.in

For Over 30 years now Newtronic Lifecare has established itself as one of the leading brands in the space of Laboratory Equipments. Our product range includes:

- Humidity Chambers
- Walk-in Humidity Chambers
- Photo Stability Chambers
- Freeze Thaw Chambers
- Cooling Chambers
- Walk-in Cold Rooms
- Deep Freezers (-20°C)
- BOD Incubators
- Laboratory Incubators
- Laboratory Ovens
- Vacuum Ovens &
- Data Loggers

WE design and manufacture the chambers that meet regulatory aspects w.r.t. ICH, WHO, US-FDA, TAPPI, TGA, JPMMA, MHRA, ANVISA, ASEAN or any other testing standards.

The chambers are best suited to achieve the required conditions and comply with all the standard regulatory requirements.

Our products are reliable with respect to safety & quality, have maximum service life & minimum maintenance assuring 24 x 7 operations.

**Booth: G-27/B, Hall - 1**

**NIMECH ENGINEERING CO.**  
6, RAJANI INDUSTRIAL ESTATE  
OPP. GUJARAT BOTTLING, RAKHIAL  
AHMEDABAD 380 023 INDIA  
TEL: +91.79.2291.0596  
EMAIL: nimachec@yahoo.com

- MANUFACTURER OF BATCH CODING MACHINES
- NIMACH BRAND HIGH SPEED CARTON CODE PRINTING MACHINE TYPE AU-2
- NIMACH BRAND HIGH SPEED LABEL CODE PRINTING MACHINE TYPE AU-1

**Booth: C-5/A, Hall - 5**

**NPM MACHINERY PVT. LTD.**  
Block No 252, Block-E, Plot-4, Nr Gujarat Aqua Mac  
AHMEDABAD 382 213 INDIA  
TEL: +91.2717.32.5315  
EMAIL: exports@npmmachinery.com  
URL: www.npmmachinery.com

We take this opportunity to introduce "NPM" - India, as one of the fastest growing Manufacturer and Exporter of complete line of Liquid and powder Packaging Equipments for Pharmaceutical, Agro-chemical (Pesticides/Herbicides), Food & Beverages, Cosmetics, Lube Oil, etc. Industries.

Our expertise is to provide end-to-end solutions for liquid processing and packaging. Catering an entire range of equipments for more than one and half decades, we have carved a niche in domestic and international market.

We offer complete solution for any kind of liquid packaging right from washing, filling, capping, inspection, labeling up to packing.

Perceiving a vision to make liquid packaging the most sophisticated and competitive, we are determined to serve any latest need of the industry.

We have more than 200 valued customers all over the world and our products are being exported to more than 25 countries.

**Booth: H-05, Hall - 1**

**O'Hara Technologies**  
20 Kinneer Court, Richmond Hill  
ONTARIO L4B 1K8 CANADA  
TEL: +1 905 7073286  
EMAIL: doug.conley@oharatech.com  
URL: www.oharatech.com

O'Hara Technologies specializes in solid dosage process equipment for pharmaceutical industry. We offer 32 years of experience in cutting edge design, innovation and high quality manufacturing systems to our customers. All of our equipment is designed in-house and fully supported through a global network of agents, service technicians and company offices.

**Products:**

Our product range provides proven solutions through all capacity requirements - from small scale R&D models through to high capacity continuous systems. Complimenting our coater product line, we manufacture fluid bed dryers / granulators, blenders and tray drying

ovens.

O'Hara Technologies supplies fully integrated systems including top of the line air handling units built in-house, dust collection units and process control systems. Our large R&D and engineering teams make sure you get the best quality product with the most efficient performance.

**Service:**

Our value added services include comprehensive service plans, in-depth customer training, engineering expertise projects, process studies, equipment life cycle management, product trials and up-grades to existing equipment

**LOCAL BUSINESS ASSOCIATES:**

- PHARMA TOOLS  
Mumbai INDIA

**Booth: G-18, Hall - 1**

**OSWORLD SCIENTIFIC EQUIPMENTS PVT. LTD.**

Osworld Scientific Equipments (P) Ltd.  
B-44 New Empire Industrial Premises  
Kondivita, J.B. Nagar, Andheri (E),  
MUMBAI 400 059 INDIA  
TEL: +91.22.2832.0880 / 2839.0487  
EMAIL: info@osworldindia.com  
URL: www.osworldindia.com

Osworld Scientific is one of the leading manufacturers in India. Established in the year 1972, having made its mark in Walk In Stability Chambers, Walk In Cold room, Autoclaves, Ovens, Incubators, BOD, Cooling Incubators, Deep Freezer, Seed Germinators since 40 years. Osworld continuously introduce new ideas, design & quality products manufactured to the highest safety standards with complete Sales and Services with technical support backed by an expert team & at a very reasonable price. An ISO 9001-2008 certified company.

The company has successfully achieved this distinct position owing to its quality products and total customer satisfaction. We have a vast range of satisfied customers in the field of Pharmaceuticals, medicine, testing, laboratory, hospitals, food industry, paints, colleges & Universities etc.

Osworld provide with high quality products & superior service to all our valued customers.

Come 'Experiment With The Truth' with Osworld

**Booth: B-24, Hall - 5**

**PACIFIC TECHNOLOGIES**  
SURVEY NO. 50 AND 54, SECTOR NO. 2,  
BUILDING NO. A-6, SWAMI INDUSTRIAL CENTRE,  
GAURAI PADA VASAI (E)  
MUMBAI 401 208 INDIA  
TEL: +91.250.245.8943  
EMAIL: pacifictecs@gmail.com  
URL: www.pacifictechnologies.co.in

**PACIFIC TECHNOLOGIES LAST 8 YEARS MANUFACTURING OF:**

- SEMI AUTOMATIC & FULLY AUTOMATIC CAPSULE FILLING MACHINE MODEL AFT-25, 40, 90, 150

**Booth: F-12, Hall - 1**

**PACIFIC TOOLS PVT. LTD.**  
PACIFIC TOOLS PVT LTD  
UNIT NO - 8, NOBLE INDUSTRIAL ESTATE NO 1,  
NAVGHAR, VASAI (EAST),  
MUMBAI 401 210 INDIA  
TEL: +91.250.239.2802 / 239.1895  
EMAIL: info@pacifctools.in  
URL: www.pacifctools.in

Pacific Tools Pvt Ltd is one of the largest Tablet Tooling manufacturer in India with two manufacturing locations one in Mumbai and one in Chennai. Today Pacific is not only a leader in the domestic market but are also fast coming up in the International market with exports of Tablet Tooling to more than 15 countries.

We are presently working with a vision to become one of the best manufacturers of Tablet Tooling in the World. Our facility is getting upgraded continuously with World class machineries. Apart from Tablet Tooling we also manufacture tooling accessories like Punch Storage systems, Punch Polishing kits, Punch Inspection Systems etc;

**FOREIGN PRINCIPALS:**

- Yenchen Machinery company Ltd - Taiwan
- Metalurgica Lurga - Portugal

**Booth: C-32, Hall - 5**

**PACKAM CONTROLS PVT. LTD.**  
Packam Controls Private Limited  
Patel Vanika, Western Express Highway,  
Goregaon (East),  
MUMBAI 400 063 INDIA  
TEL: +91.22.6120.6600  
EMAIL: manas.koli@packam.co.in  
URL: www.packam.co.in

Packam has dedicated more than five decades in delivering quality products to its customers.

An experience in manufacturing and exports to over 50 countries gives us the needed expertise and enables us to keep up with the customers' demands and handle global projects with ease. We are always on the lookout for betterment and it is this passion to do the best that keeps us going.

We distinguish ourselves as pioneers in the field of motion control, especially the manufacture of Cam Indexers.

Our high precision cam indexers are manufactured on state of the art machines, backed by skilled and internationally trained technicians. We have the experience and know-how to choose the optimal, risk free indexer to assure the required function and life.

Packam has partnered with an international company to manufacture slip-ring units according to the electrical and mechanical specifications and requirements of the respective customer. Our technicians are trained in Europe and our assembly / testing facilities are approved by our partners. This ensures a high and consistent quality of every unit manufactured.

**Booth: B-11, Hall - 5**

**PACKWELL INDIA**  
B-19, SURYAM PLAZA ESTATE,  
ROAD NO.15, B/H BHAGYODAY HOTEL,  
KATHWADA GIDC, KATHWADA,  
AHMEDABAD 382430 INDIA  
TEL: +91.92280.88284  
EMAIL: sales@dhaneshind.com  
URL: www.packwellindia.co.in

We are Manufactures, Exporter, Consultant of Pharmaceutical & also provided total Turnkey Project solution for Pharmaceutical & other allied industries manufacturing, process, primary packaging & secondary packaging equipments.

**Booth: A-5, Hall - 5**

**PAMS GmbH**  
Dieselstraße 10,

D-71277 Rutesheim  
GERMANY  
TEL: +49.71.52.99.63-0  
EMAIL: info@pamas.de  
URL: www.pamas.de

PAMAS GmbH (founded in 1992), located near Stuttgart in Germany, is active throughout the world as a company focused on high-quality particle measuring systems. Whenever it comes to particle counting and particle sizing, PAMAS answers your needs for most applications. We at PAMAS have a continuing commitment to learn from our customers. This drives the design quality of our products, now regarded as the most reliable and accurate particle measuring instruments in the world. Furthermore, our experience over many years in this field enables us to provide individual support to every user of PAMAS equipment, including a wide variety of special applications. Our statement is to solve our customers' problems, not just to sell a particle counting system.

PAMAS Product Range:  
Liquid Particle Counter PAMAS SVSS

LOCAL BUSINESS ASSOCIATES:  
· ERWEKA INDIA PVT. LTD.  
Ahmedabad INDIA

**Booth: A-7, Hall - 5**  
**PANKAJ INDUSTRIES**  
Indo Indl Estate No.3, Navghar Vasai East  
MUMBAI 401 210 INDIA  
TEL: +91.250.239.0273  
EMAIL: pankajindustries@pankajindustries.com  
URL: www.pankajindustries.com

Manufacturer and Exporter of Tablet Punches and Dies, Tablet Compression Machine, Punch Polishing Kit & Punch Inspection Kit.

**Booth: H-07, Hall - 1**  
**PARLE ELIZABETH TOOLS PVT. LTD.**  
Shripal Industrial Estate,  
Bldg No 3, Behind Varun Industries,  
Waliv Road, Vasai East,  
MUMBAI 401 208 INDIA  
TEL: +91.250.663.2222  
EMAIL: sskumar@parleglobal.com  
URL: www.parleglobal.com

Parle Elizabeth Tools Pvt. Ltd. / Parle Global Technologies Pvt. Ltd. has been serving the pharmaceutical industry for four decades and is one of the largest manufacturer of pharma machinery & services in India & around the globe. The group comprises of Parle Agency & Packaging Division; Parle Elizabeth (Tools & Tablet press) division and Parle-Kovai Machineries.

Parle Global Technologies Pvt. Ltd. has a presence in over 50 countries & 9 branches in India with its products and services, employing nearly 500 members that strive to provide world-class technology across multiple domains. We offer a complete range of solutions beginning with Tablet Tooling; Press; Packaging; Tablet Printing; Tablet filling & counting; Tablet Inspection; granulation and coating; blister packing and carton packing to the end-of-line solutions

FOREIGN PRINCIPALS:  
· Daiichi Jitsugyo Viswill Co. Ltd.  
· Charles Ischi AG  
· Elizabeth Hata International  
· Rota  
· Freund Corporation  
· DCM, Korea

**Booth: A-9/A, Hall - 5**

**PARTH ENGINEERS & CONSULTANT**  
Plot C1 - 4519, Phase-IV,  
Road 4W, G.I.D.C., Vatva,  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2584.1155  
EMAIL: info@parthec.com  
URL: www.parthec.com

We are manufacturers and exporters of packaging machines such as washing, filling, sealing, labelling, conveying, printing, cartooning in liquid and powder line machines for whose range of operations span in various industries like:

- Pharmaceuticals
- Distilleries & Breweries
- Cosmetics & Toiletries
- Lube & Edible Oil
- Pesticides
- Food & Ancillaries etc.

**Booth: D-25, Hall - 5**  
**PCI ANALYTICS PVT. LTD.**  
3/14, BHANDUP INDL. ESTATE,  
PANNALAL COMPOUND, L.B.S. MARG,  
BHANDUP (WEST)  
MUMBAI 400 078 INDIA  
TEL: +91.22.4094.6946 / 6755.1300  
EMAIL: chander@pcianalytics.in  
URL: www.pcianalytics.in

We are leading manufacturers & suppliers of equipments. accessories, spares & consumable & pre-Installation requisites (PIR) for G.C., HPLC, UV-Vis, IR / FTIR & AAS / ICP / LC-MS etc. Our Endeavor and emphasis is to provide support to your Analytical needs, some of our main items are : Gas Purification & Control Pannel for G.C. / AAS / ICP / NMR & for LPG line etc., Zero Air Generator for G.C. / TOC Analyzer, Nitrogen Gas Generator for G.C. / LC-MS / LC.MS.MS/Turbo Evaporator, Hydrogen Gas Generator, HPLC Column Oven for normal & GPC analysis, Digital Gas Flow Meter ( 6 Models ), Ultrasonic Bath (Sonicator) / Probe Sonicator, HPLC Pump for column washing, N2 Concentrator (Turbo Evaporator), Gas Piping & Utility line Projects, Methanizer - for G.C Integrator Software, Air Compressors, Multichannel Temperature Controller for G.C. instrument, Our other products are like :- Gas Cylinder Regulators, Gas Manifolds (Auto / Manual), Tubings, septums, AAS Hood, etc.

**Booth: H-02/A, Hall - 1**  
**PERFECT PACK SRL**  
Via Borghetto 4,47923, Rimini (RN), Italy  
Rimini (RN) 47923 Italy  
TEL: +39 0541 728208  
URL: www.perfect-pack.com

Perfect Pack is a 25 years Old Italian company designs & manufactures packaging sachet lines either 3-seals, 4-seals or stand-up packs (Intermittent motion technology) for powders, granules, semidense-dense products, liquids and wipes for the Pharmaceutical, Cosmetics and Food industries. The high quality and the unique techniques make our equipments well appreciated and utilized in the major industrial branches to produce both high quality standard and customized packages. Perfect Pack is proud to offer to its customers an excellent and prompt customer service to guarantee accurate and efficient feedback to fully satisfy even the most demanding packaging needs.

LOCAL BUSINESS ASSOCIATES:  
· INCOME Group  
Mumbai INDIA

**Booth: D-5/A, Hall - 5**  
**PHARMA CHEM MACHINERIES**  
311/2484, Motilal Nagar no. 2, Goregaon (West).  
MUMBAI 400 090 INDIA  
TEL: +91.22.2783.5321  
EMAIL: Pharmach@gmail.com  
URL: www.pharmech.com, www.ipharmashop.com

Our company is engaged in Manufacturing and exporting Pharma Cosmetic and food industrial packaging and processing machine, we also manufacture laboratory and analytical instruments for pharma and chemical companies.

Some of our products are capsule filling / polishing / counting blister packing. Tube filling & sealing Jar filling and capping, Liquid filling / capping etc we also make/ design as per client requirement.

**Booth: H-05, Hall - 1**  
**PHARMA TOOLS**  
18, Suyog Industrial Estate  
L.B.S. Marg, Vikhroli (W)  
MUMBAI 400083 INDIA  
TEL: 91-22-25786007  
EMAIL: pi@pharmachine.com  
URL: www.pharmachine.com

Pharma Tools is part of a group of companies engaged in manufacturing of Pharmaceutical Machines & Tools. The group has been manufacturing Punches & Dies for over 44 years. Today, it is the most reputed manufacturer of compression tooling in India.

The group was formed in 1968 on a commitment to provide high quality compression tools to the pharmaceutical industry. Our passion for quality and adherence to IPT/Euro-norms ensures that our products are both precise and consistent. This is depicted by the fact that more than 60% of our production is exported to over 35 countries like USA, Mexico, Germany, Brazil, Chile, Argentina, Indonesia, Philippines, South Africa, UK, Malaysia, Nigeria, etc.

We are the only Indian Manufacturer to be mentioned as a Reviewer / Contributor in TSM (Tabletting Specification Manual). Our client list consists of more than 35 MNCs with companies like Sanofi Aventis having approved us as a global vendor for.

In 1989, we capitalised on our expertise and knowledge in manufacturing tablet compression tools to bring tablet presses. ADEPT Tablet Presses are remarkably sturdy and simple to use. Special emphasis has been given to safety & durability while designing these machines. Even in case of machines, more than 50% of the production is exported. Currently more than 350 ADEPT Tablet Presses are producing tablets across the globe.

FOREIGN PRINCIPALS:  
· OHara Technologies - Canada

**Booth: B-2, Hall - 5**  
**PHARMALAB INDIA PVT. LTD.**  
KASTURI, 3rd Floor, Sanghvi Industrial Estate,  
Govandi Station Road, Govandi,  
MUMBAI 400088 INDIA  
TEL: +91.22.6622.9900  
EMAIL: kunal@pharmalab.com  
URL: www.pharmalab.com

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Tel: +91 40 32500704, +91 9848129607  
MUMBAI OFFICE: 30-G, Apollo Ind. Estate,  
Off. Mahakali Caves, Opp. MIDC, Andheri -E

www.spaceageaqua.com | info@spaceageaqua.com

**Leaders in USP Purified Water Systems**

It takes capability to deliver the first water system. It takes dedication and commitment to keep up the expectations and deliver the commitments & support required year after year. We have been delivering to your expectation over the last 10 years.

- :: RO / UF/ EDI Systems
- :: Storage & Distribution
- :: Loop Piping
- :: CIP Systems
- :: Sanitary RO / UF

Pharmalab is a name synonymous with state-of-the-art technology and equipment in the areas where quality is crucial:

- Filtration
- Sterilization
- Processing
- Isolator Technology
- Packaging for Pharmaceutical & other industries

In the last five decades, the organization has emerged as a global player with solutions that include designing, manufacturing, installation as well as turnkey projects and consultation.

Headquartered in Mumbai, the company has ISO certified manufacturing units and is supported by a team of highly qualified and experienced scientists and technocrats.

**FOREIGN PRINCIPALS:**

- SKAN AG - Switzerland
- SERAIL - France

**Booth: C-2/B, Hall - 5**  
**PHARMATECH PROCESS EQUIPMENTS**

Survey No.: 423, Plot No. 9 & 10,  
Mahagujarat Industrial Estate,  
Opp. Hotel Sarvodaya,  
Near Moraiya Bus Stop,  
Village: Moraiya, Tal. Sanand  
AHMEDABAD 382 213 INDIA  
TEL: +91.98795.11807  
EMAIL: bhavesh.sales@pharmatechprocess.com  
URL: www.pharmatechprocess.com

Pharmatech Process Equipment, Ahmedabad is one of the leading manufacturers of Pharmaceutical Process Equipments. The company is facilitated with high standard manufacturing machines like Orbital Welding Machines, Automatic Buffing & Polishing Machines, Boroscopy instrument etc. as well as in-house Electro-Polishing division adopted technology from Germany.

The company has strength of about 160 employees including highly qualified staff in design, manufacturing, sales and service departments. The company has been in the market for more than three decades and considerably having good market in Pharmaceutical Industries with number of installations of its products in the reputed organizations like Ranbaxy Labs., Glaxo Smithkline, Wockhardt Ltd, Cadila Healthcare Ltd, Aurbindo Labs., Dr. Reddys Labs. etc. Pharmatech is a single roof solution provider to the pharmaceuticals, Bio-technology and cosmetic industries. Pharmatech offers process conceptualization, design, manufacturing and execution of the turnkey projects for Process Equipments and the system.

**MEDIA**  
**PharmaTechnologyIndex.com Pvt. Ltd. / KNS Media**  
702, Corporate House,  
Nr. Dinesh Hall, Income Tax, Ashram Road  
AHMEDABAD 380 009 INDIA  
TEL: +91.79.2754.0491  
EMAIL: info@pharmatechnologyindex.com  
URL: www.pharmatechnologyindex.com

We PharmaTechnologyIndex.com Pvt. Ltd (KNS Group of Company), are known as one of the worlds best service providers engaged in offering services for Pharma B2B Portal (www.pharamatechnologyindex.com), Pharma Publication, Event Organizer & Event Management. Our mission is to maintain a healthy business relationship with our customers by implementing a professional work environment. In order to turn our mission into reality, we focus on constant improvement, employee empowerment, product innovation, and world class supply chain strategies.

Our company is publishing own magazine PharmaTech, A Bi-Monthly magazine. Over the past 42 years, KNS Media has grown by leaps and bounds in this business domain. In addition, our company is the media partner for various national and international events.

We have more than 1500 registered company on our B2B Pharma portal and more than 7000 products listed. Our portal is viewed by more than 160+ countries all over the world.

**Booth: C-21, Hall - 5**  
**PHARMATEX HEALTHCARE PVT. LTD.**

B 308, HAMILTON BLDG, NO 1&2,  
HIRANANDANI ESTATE, GHODBUNDER ROAD,  
THANE 400 607 INDIA  
TEL: +91.22.4122.5042 / 41 / 43 / 44  
Mobile: +91.87672.51085  
EMAIL: harshad.pharmatex@gmail.com  
dharon.jothi@hartalega-kl.com.my, prakash.pharmatex@gmail.com,  
ashok.pharmatex@gmail.com, swapnalee.pharmatex@gmail.com,  
qamar.pharmatex@gmail.com, dhanesh.pharmatex@gmail.com,  
nelson.pharmatex@gmail.com  
URL: www.hartalega.com.my

Manufacturing of Examination Gloves

**Booth: C-6/A, Hall - 5**  
**PPI PUMPS PVT. LTD.**

14 & 16 - E, PHASE - 1,  
GIDC ESTATE, VATWA  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2583.2273  
EMAIL: anand@ppipumps.com  
URL: www.ppipumps.com

WE ARE MANUFACTURER OF WATER RING VACUUM PUMPS AND ZERO DISCHARGE SYSTEMS IN INDIA SINCE LAST 35 YEARS. WE ARE THE FIRST ISO-9001:2000 CERTIFIED LIQUID RING VACUUM PUMP MANUFACTURING COMPANY IN INDIA BY RWTUV-Germany

AT PRESENT WE ARE EXPORTING OUR PRODUCTS TO DIFFERENT PART OF THE WORLDS LIKE:

- USA
- NEPAL
- NIGERIA
- TANZANIA
- DUBAI
- PHILIPPINES
- SOUTH AFRICA
- KENYA
- MAURITIUS
- BANGLADESH
- SHARJAH
- MALAYSIA
- INDONESIA
- EGYPT
- AUSTRALIA, etc.

**Booth: A-9/B, Hall - 5**  
**PRISM PHARMA MACHINERY**

Plot No. 3713, Phase IV, Road 4P, G.I.D.C., Vatva  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2909.5204  
EMAIL: sales@prismpharmamachinery.com  
URL: www.prismpharmamachinery.com

The Prism Pharma Machinery is having in house manufacturing facility with ISO 9000 - 2008 system. We have CE standard machinery for process of powder, liquid, and semi solid. We have process equipment

for mixing, drying, vacuum drying, granulating, mixing, milling, size reducing, blending, tableting, coating, pelletizing, pellet coating, stirring, homogenizing, vacuumised mixing, filtration, evaporation, containment, material conveying, cleaning and fermentation as well as process integration and process automation service. We have large customer base world wise in present more than 55 countries.

**Booth: A-11/A, Hall - 5**  
**PROMPTECH PHARMA INDUSTRIES**

156, 2nd FLOOR, SUNGRACE SHOPPING CENTRE,  
CHARKOP MARKET, KANDIVALI (WEST)  
MUMBAI 400 067 INDIA  
TEL: +91.22.2967.4902  
EMAIL: info@promptechpharma.com  
URL: www.promptechpharma.com

WE ARE MANUFACTURES & SUPPLIERS OF:

- SS Cgmp EQUIPMENTS FOR PHARMACEUTICAL, CHEMICAL, FOOD & ALLIED INDUSTRIES
- DESIGNER & FABRICATORS OF ALL TYPES OF SS CLEAN ROOM FURNITURE & EQUIPMENTS USED IN PHARMA

**Booth: F-03B, Hall - 1**  
**PROPACK TECHNOLOGIES PVT. LTD.**

317, HILL VIEW INDUSTRIAL ESTATE,  
OFF L.B.S MARG, AMRUT NAGAR,  
GHATKOPAR WEST  
MUMBAI 400 086 INDIA  
TEL: +91.22.2500.2610 / 11  
EMAIL: chintan@propacktechnologies.com  
URL: www.propacktechnologies.com

Propack Technologies Pvt. Ltd are pioneers in Processing Machineries for Pharmaceutical Industries. Propack can fabricate process equipments under International Code like ASME Section VIII Div. 1, ASME - BPE

We have a strong market presence with more than 1000 clients in India and across the globe.

Our core expertise is:

- Ointment & Cream Manufacturing Plant
- Liquid & Syrup Manufacturing Plant
- Sterile Blending Vessels
- Gelatin Manufacturing Plant & CIP / SIP Modules

PROPACKS equipment comply with USFDA, UKMCA & cGMP norms.

We also provide consultancy for Turn-Key Projects, right from concept to commissioning.

**Booth: B-18, Hall - 5**  
**PROTON ENGINEERS**

PLOT NO.: 357, ROAD NO.: 7,  
KATHWADA GIDC  
AHMEDABAD 382 430 INDIA  
TEL: +91.79.2290.0298  
EMAIL: info@protonengineers.com  
URL: www.protonengineers.com

Proton Engineers is a leading & trusted Manufacturers and Exporters of:

- Rotary Tablet Press Machines
- Dies & Punches and other Tablet Section allied Machinery

The Company is located in Kathawada GIDC, Ahmedabad (India). The company is having state of art manufacturing facility and highly skilled & experienced technical staff to produce high quality and reliable Machinery. The company is having strong presence in Domestic Market as well as expanding their global business YOY. Major products of the company is as under.

- Rotary Tablet Press (R & D Scale, Small Batch to Large Batch Production)
- Roll Compactor
- De-burring & Dedusting Unit (Vibro & Elevating Type)
- Dust Extraction Unit
- Multi Mill
- Vibro Sifter
- Double Cone Blender
- Octagonal Blender
- Oscilating Granulator
- Colloid Mill
- Conventional Coating Machine
- Dies & Punches

**Booth: H-01, Hall - 1**  
**R. P. PRODUCTS PHARMA EQUIPMENTS PVT. LTD.**

PAP-R-234, TTC IND. AREA, MIDC RABALE  
NAVI MUMBAI 400 701 INDIA  
TEL: +91.22.2760.0926  
EMAIL: sales@rpproducts.org  
WEB: www.rpproducts.org

Manufacturers of Special Purpose Equipments for

- Pharmaceutical
- Food
- Chemical Industry

**Booth: A-12, Hall - 5**  
**RAHUL FERROMET & ENGG. PVT. LTD.**

609, Sanket Heights,  
Nr. Akshar Chowk, Sun-Pharma Road,  
VADODARA 390 020 INDIA  
TEL: +91.265.298.1100  
EMAIL: marketing@rensatubes.com  
URL: www.rensatubes.com

RAHUL FERROMET & ENGINEERING PVT LTD is one of the leading service providers for Hygienic & Ultra High Purity Electro Polished & Mechanical Polished Stainless Steel Tubes for more than 15 years. We understand the importance of surface finish and Weld Bead Quality in piping system and to provide the best solution to END users / OEMs for piping systems, RAHUL FERROMET & ENGINEERING PVT LTD has set up the world class manufacturing facilities for hygienic tubes in India with the brand name of rensa TUBES.

We give special attention to achieve the maximum smoothness on inner and outer surface of the tubes in order to avoid all possible corrossions and to prevent contamination. Smooth surface ensure the better flow and inner surfaces can be cleaned easily so as to maintain hygienic conditions. rensa TUBES are made extremely smooth and crevice free which is achieved by various grits Mechanical Polishing and Electro Polishing.

**Booth: C-1, Hall - 5**  
**RAPID PACK ENGINEERING PVT. LTD.**

SURVEY NO.: 66, PLOT NO. 18,  
NEAR IPOL, VILLAGE WALIV, VASAI (E)  
Dist. THANE 401 208 INDIA  
TEL: +91.250.398.0200  
EMAIL: kumar@rapidpack.com  
URL: www.rapidpack.com

A company conceived in the year 1991 to be involved in the business catering to the needs of the packaging industry. A company which had humble beginnings and established itself in the corporate arena as one of the largest producers of blister packing machines, cartoners, bundlers and case packers from India.

The company is involved in the manufacture of blister packing machines and cartoners specific to the Pharma industry. The company has a strong global presence, a structured manufacturing process and a state of the art manufacturing plant; having stringent quality checks which enables it to become an easily acceptable machine even in the regulated markets.

The company also has a strong presence in the vision inspection system arena with camera based vision inspection systems promoted under the brand name of CHAKSHU.

**Booth: F-03D, Hall - 1**

**RAVI KIRAN INDUSTRIES**

213, MITTAL ESTATE NO 2,  
MAROL NAKA, ANDHERI (E),  
MUMBAI 400 059 INDIA  
TEL: +91.22.2850.6569  
EMAIL: sales.ravikiran@gmail.com  
URL: www.ravikiranindustries.in

We take this opportunity to introduce ourselves as a leading manufacturer and exporter of process and packaging machinery for the pharmaceutical, cosmetic, chemical, distillery and allied industries.

We started with manufacturing a limited range of products. In the past 25 years (since 1985) Ravi-Kiran has expanded rapidly by adding a wide range of products and up gradation of the existing range, to the extent that we can now offer complete plant machinery as per individual requirements.

Since inception, Quality has been the motto of the company, which has been rewarded by client loyalty, as we have retained most of our customers' and added new ones with each passing year,

Over the years, with the change in the international markets, Ravi-Kiran has laid its focus on the export market and has started exporting to many countries both the developing ones and the developed countries. This has helped us greatly in upgrading our technology and be abreast with the latest international trends.

The administration and head office of the company is situated in the heart of the City at Mittal Estate in Andheri (E), with close proximity to the International and Domestic airport within 1 KM from the international Airport.

Ravi Kiran has two manufacturing locations, one situated in Andheri near the administration office and the second an independent shed located at Vasai on the outskirts of Mumbai.

**Booth: C-33, Hall - 5**

**REPUTE ENGINEERS PVT. LTD.**

REG. OFFICE:  
12/23, D1 BLOCK MIDC, CHINCHWAD,

MKTG. OFFICE:  
C27 & 52, FIRST FLOOR,  
SANGHAVI STEEL COMPOUND,  
MOHAN NAGAR, CHINCHWAD,  
PUNE 411 019 INDIA  
TEL: +91.20.2748 1687 / 2748.1368  
EMAIL: info@reputeindia.net  
URL: www.reputeindia.com

REPUTE ENGINEERS PVT. LTD. PUNE, established in the year 1998. REPUTE one of the preferred equipment manufacturer for all critical process equipments & systems for the entire Industries i.e. Dairy, Beverages & Natural fruit pulp / Juice, Pharma & Healthcare etc.

Plate Heat Exchangers. REPUTE is associated with M/s Thermaline Inc., USA for the heat exchangers of sanitary applications.

Tubular Heat Exchangers: REPUTE manufacture various types of Tubular Heat Exchangers i.e. shell & tube and Concentric Heat exchangers. REPUTE is associated with MBS Srl, Italy. Semi Welded Heat Exchangers: REPUTE Semi welded Heat exchangers are made with the thermal design & components imported from M/s Thermowave GmbH, Germany.

Separators & Clarifiers: REPUTE offers wide range of M/s REDA Spa. Italy Make.

High Pressure Homogenisers: REPUTE offers M/s Bertoli Srl. Italy make, High Pressure Homogenizers & piston pumps. Cleaning in Place Unit (CIP / SIP): REPUTE CIP systems are widely used in the Dairy, Beverage, Pulp processing & Pharma industries. Processing Plants: REPUTE design, manufacture & supply various types of Processing Plants for Milk, Milk products, UHT with aseptic packing, Cheese Processing, Ice cream, Beverages / Juices & Fruit pulp.

To know more about us, please visit us at [www.reputeindia.com](http://www.reputeindia.com).

**Booth: H-02/A, Hall - 1**

**ROMACO PHARMATECHNIK GMBH**

Am Heegwald 11, 76227 Karlsruhe, Germany  
KARLSRUHE 76227 GERMANY  
TEL: +49 (0)721 4804 0  
EMAIL: info@romaco.com  
URL: www.romaco.com

Products / Services offered:

Romaco is a leading global supplier of processing and packaging equipment. Divided into two business areas for Processing and Packaging, the company develops system solutions for the pharmaceutical, cosmetics, food and chemical industries. The engineering specialist, headquartered in Karlsruhe (Germany), operates from European locations with seven brands spanning multiple industries: Bosspak, Noack and Siebler located in Karlsruhe; Macofar, Promatic and Unipac in Bologna, Italy. The Processing sector, represented by FrymaKoruma, resides at Rheinfelden (Switzerland). Romaco supplies equipment for Blister / Strip Packaging, Tablets / Capsule Counting, Washing Machines, Sterilizing Tunnels, Sterile Liquid & Powder Filling, Cartoning Machines, Capsule Filler, Tube Filling, and Customized Packaging.

LOCAL BUSINESS ASSOCIATES:

· INCOME Group  
Mumbai INDIA

**Booth: H-02/A, Hall - 1**

**ROMACO SRL**

Via Marzabotto, 5, 40065, Pianoro, Bologna, Italy  
PIANORO 40065 ITALY  
TEL: +39 051 620 2611  
EMAIL: romacosrl@romaco.com  
URL: www.romaco.com

Products / Services offered:

Romaco is a leading global supplier of processing and packaging equipment. Divided into two business areas for Processing and Packaging, the company develops system solutions for the pharmaceutical, cosmetics, food and chemical industries. The engineering specialist, headquartered in Karlsruhe (Germany), operates from European locations with seven brands spanning multiple industries: Bosspak, Noack and Siebler located in Karlsruhe; Macofar, Promatic and Unipac in Bologna, Italy. The Processing sector, represented by FrymaKoruma, resides at Rheinfelden (Switzerland). Romaco supplies equipment for Blister / Strip Packaging, Tablets / Capsule Counting, Washing Machines, Sterilizing Tunnels, Sterile Liquid & Powder Filling, Cartoning Machines, Capsule Filler, Tube

Filling, and Customized Packaging.

LOCAL BUSINESS ASSOCIATES:

· INCOME Group  
Mumbai INDIA

**Booth: H-07, Hall - 1**

**ROTA VERPACKUNGSTECHNIK GMBH & CO. KG**

Oflinger Strasse, 118, D-79664  
Wehr Germany  
TEL: 00-49-0-7762-708124  
EMAIL: alexander.klaess@rota.de  
URL: www.rota.de

Rota manufactures, and markets machines for washing, sterilizing, filling, closing, inspecting, and labelling of ampoules, vials, and other cylindrical containers

LOCAL BUSINESS ASSOCIATES:

· PARLE ELIZABETH TOOLS PVT. LTD.  
Mumbai INDIA

**Booth: D-7, Hall - 5**

**ROTOFIL INDUSTRIES**

11-DLF INDUSTRIAL AREA, MOTI NAGAR  
DELHI 110 015 INDIA  
TEL: +91.11.2541.1866  
EMAIL: amalhotra@sprsales.com; sprsalesk@gmail.com  
URL: www.sprsales.com

We feel pleasure in introducing ourselves as pioneers in the field of bottling solutions. Since last five decades the Group is involved in designing, manufacturing, marketing and exporting:

- SEMI AUTOMATIC
- AUTOMATIC & HIGH SPEED BOTTLING LINES
- PACKAGING MACHINES manufactured by its own manufacturing units, ranging from 10 BPM to 300 BPM catering to Industries like - Liquor, Breweries, Pharmaceuticals, Beverages, Mineral Water, Food, Cosmetics, Agro Chemicals, Edible Oil, Lube Oil, Paints, etc.

The Group is headed by Mr. Swaran Singh (founder of S.S. Group of Industries) with manufacturing units namely JAGAT INDUSTRIES UNIT-I, JAGAT INDUSTRIES UNIT-II, ROTOPACK INDUSTRIES, ROTOFIL INDUSTRIES, R.S. INDUSTRIES & K.S. INDUSTRIES managed by family members.

M/s SPR Group has provided economical solutions in packaging with no compromise in quality and with improvement in existing designs and metallurgy.

**Booth: D-7, Hall: 5**

**ROYAL UNIFORM TAILORS**

SHOP NO:-30, GANJAWALA SHOPPING CENTRE  
S.V.P. ROAD, BORIVALI (WEST)  
MUMBAI 400 092 INDIA  
TEL: +91.22.2895.1895 / 2893.3012  
EMAIL: royaluniforms@gmail.com, royal.uniforms@hotmail.com  
URL: www.royaluniforms.co.in

Royal Uniform Tailors formerly know Uniform Style, an associate company of Perfect Safety Equipments is owned & managed by SURESH ANAND & RAMESH ANAND and having experience of more than 30 years. We have a dedicated team of more than 60 people working efficiently for providing economy solutions to all your work wear and safety equipment requirements.

We manufacture more than 300 uniforms per day across various segment of industries like engineering uniforms, Pharma uniforms, clean room garments, autoclaveable antistatic uniforms, etc.

Ours is a one stop solution for all your work wear & personal protective

equipments.

We follow standards set by leading industries and also statutory bodies like BIS, National Safety Council, SAMA & CE Norms.

Fabrics used by us are tested at SASMIRA, BITRA and other reputed testing Labs.

**Booth: E-07/B, Hall - 1**

**SAIMACH PHARMATECH PVT. LTD.**

PLOT NO.6, LAXMI ESTATE,  
BEHIND NAVNEET PRAKASHAN COMPOUND,  
AJOD DAIRY ROAD, RAKHIAL,  
AHMEDABAD 380023 INDIA  
TEL: +91.79.6542.1000 / 2276.0100  
EMAIL: sales@saimach.com  
URL: www.saimach.com

Manufacturers & Exporters of:

- ROLL COMPACTOR MACHINE
- HIGH SPEED ROTARY TABLET PRESS MACHINE
- LAB MODEL TABLET PRESS MACHINE
- RAPID MIXER GRANULATOR
- FLUID BED DRYER
- ALL TYPE OF BLENDERS
- MULTI MILL
- SIFTER 30, 36, 48
- DE-DUSTING MACHINE
- DUST EXTRACTOR MACHINE
- DIES & PUNCHES
- COLLOID MILL
- COMMUNICATING MILL
- REPLACEABLE SPARES FOR ALL TYPE ROTARY TABLET MACHINE
- TABLET INSPECTION BELT
- CAPSULE INSPECTION BELT

**MEDIA**

**SAFFRON MEDIA PVT. LTD.**

2nd Floor, Laura Building,  
1st Dhobi Talao Lane, Dhobi Talao,  
MUMBAI 400 002 INDIA  
TEL: +91.22.2206.3132  
EMAIL: sales@saffronmedia.in  
WEB: www.pharmabiz.com

**Booth: C-10, Hall - 5**

**SANDILYAM AUTOMATION SYSTEMS PVT. LTD.**

# 203, 2ND FLOOR, MONEY CHAMBERS  
# 6, KH ROAD  
BANGALORE 560 027 INDIA  
TEL: +91.80.6598.8333 / 2211.0520  
Telefax: +91.80.4153.1655  
EMAIL: gen@sandilyam.com  
URL: www.barcodeglobal.com

Sandilyam Automation Systems specializes in barcode quality and compliance.

The Company founded over two decades ago, Sandilyam's focus on barcodes and Auto ID solutions has been the bed-rock for its further developments into the core domain of compliance, barcode verification and printed symbol quality.

With these years of specialization, Sandilyam's position today as a premium organization well reputed for its committed and focused work in the area of barcode verification systems and services makes it the preferred choice for many leading organization in the Indian sub-continent.

Some of the products that Sandilyam offers include:

- Barcode generation software
- Range of Barcode verification equipment

Organisations such as Hindustan Unilever, Britannia Industries, TTK Group, Dabur India, Marico, ITC, Cadbury's India, are some of the leading FMCG Companies who are benefitting from their association with Sandilyam, on the topic of barcode compliance.

As a GS1 accredited member, Sandilyam offers quality advice and educate customer on global standards and compliance that ensures that they are meeting the required level of barcode quality and acceptability before their products enter the supply chain.

The services that Sandilyam presently offers also includes:

- Barcode quality audits
- Barcode quality awareness / technical programs
- Barcode source marking services
- Compliance preprinted barcode labels.

Most leading printing and packaging house in Indian sub-continent also avail of Sandilyam's products and service to ensure their ability to claim compliance which is very critical to offer to their customers in ensuring scannable and compliant barcodes.

Emerging developments in barcoding within the Pharma Industry has been the growth of Data Matrix 2D barcodes. Today Sandilyam is in good position to offer necessary software, verification equipment and training on the Datamatrix implementation as per compliance requirements.

**Booth: B-20 + B-21 + C-6, Hall - 5**  
**SANITT EQUIPMENT & MACHINES PVT. LTD.**

Shed 5, Raj Bucket Factory Compound,  
Ghodbunder Road, Ghodbunder Village,  
Post: Mira Road (East)  
MUMBAI 401 104 INDIA  
TEL: +91.22.3290.9604  
EMAIL: cmd@sanitt.net  
URL: www.sanitt.net

MANUFACTURER OF STAINLESS STEEL CLEANROOM FURNITURES & EQUIPMENTS.

**Booth: D-28, Hall: 5**  
**SCS SKY SHOPPING**

Sojati Gate, Bilara  
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TEL: +91.293.222.101  
EMAIL: scshealth24@gmail.com  
URL: www.scskskyshopping.com

Multy fitness machine, leg massager, blood circulation massager

**Booth: F-15, Hall - 1**  
**SIGMA SCIENTIFIC GLASS PVT. LTD.**

Plot No 4606, Nr. Deepjyot Stationery Mart,  
GIDC Estate,  
Ankleshwar 393002 India  
TEL: +91.2646.22.5326 / 22.6629  
EMAIL: marketing@sigmascientific.in  
URL: www.sigmascientific.in

Sigma Scientific Glass Pvt Ltd a leading ISO 9001:2008 company certified mfg. of 3.3Expansion Borosilicate Glass Equipments. All our Glass Equipments comply with ISO 3585 / 3586 / 3587 for Sigma Flat Buttress Ends of DN-25 to DN-600. which find extensive use in construction ofr complete glass process plants.

We are specialist in Mfg. of:

- Glass Jacketed Systems for which we patent registration no 207576

- Glass Reactor Systems
- Kilo Labs (Reaction / Distillation Units)
- Glass Nutsche Filters
- Glass Overhead Assembly for GLR
- Glass Absorbers Systems
- Hydrogen Chloride Gas Generator Systems
- Bromine Recovery Plants
- Glass Process Equipments, etc.

We are located at Ankleshwar, Gujarat which is well connected by Rail & Road Transport. Our Works is spread over all area of 40,000 sq.ft. which all facility available for manufacturing and quality assurance.

**Booth: D-3, Hall - 5**  
**SK PHARMA MACHINERY PVT. LTD.**

Plot No. 12 & 13, Sai Baba Industrial Estate,  
Road No. 34, Keni Nagar, Wagle Industrial Estate,  
THANE 400604 INDIA  
TEL: +91.22.2580.6700  
EMAIL: shailesh@skexportindia.com  
URL: www.skexportindia.com

S.K Pharma Machinery Pvt Ltd. is one of the leading Manufacturers of Pharmaceutical Machineries. S.K. believes in ideology with no compromise on quality. S.K was established in the year 2,000, & manufactures an entire range of machinery for Ointments, Liquids and Biotechnology & Bioceutical Processing Equipments. S.K is equipped with team of young and experienced technocrats, sound electrical and mechanical engineers assisted with worthy and skilled fabricators and electricians. Innovative in thoughts, adapting new technologies, to serve our esteemed customers. We offers state of Art Standard Models & Manufactures Machineries untouched process equipments in cGMP for Pharmaceutical & Allied Industries.

**Booth: C-2, Hall - 5**  
**SKY SOFTGEL CO., LTD.**

25BL-5LT, 446-5 Nonhyun-Dong, Namdong-Gu,  
Incheon 405-849 KOREA  
TEL: +82.32.811.5441  
EMAIL: info@skysoftgel.com  
URL: www.skysoftgel.com

We have largest market share in the world as the most famous manufacturer of Softgel machine and Counter line who has been doing business with big pharmaceuticals.

And we have sold 700 machines worlde wide for 20 years.

**Booth: C-11, Hall - 5**  
**SPACE AGE AQUATECHS**

Plot No.: 34, J. K. Nagar,  
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Qutbullapur (Manadal)  
HYDERABAD 500055 INDIA  
TEL: +91.40.3250.0704  
EMAIL: info@spaceageaqua.com  
URL: www.spaceageaqua.com

Spaceage Aquatechs is a 12 years old company with expertise in Design, Manufacture, Installation and Validation of Pharmaceutical Water System. We are a team of Water Treatment professionals with expertise in Engineering of Pharmaceutical Water Treatment Systems, complice to International Audit norms

Spaceage is driven by the vision of its leader K. Amarnath with vast experience in the field of Pharmaceutical Water.

Nothing keeps us satisfied than our systems uptime.

Our Systems & Turnkey Projects

- RO-EDI SYSTEM
- ULTRA FILTRATION SYSTEM (UF)
- STORAGE N DISTRIBUTION System
- CIP - SIP SYSTEM

**Booth: C-30/B, Hall - 5**  
**SPECTRA TECHNOVISION (INDIA) PVT. LTD.**

707-708, Venus Atlantis Corporate Park,  
Prahaldnagar Road, Prahaldnagar, Satellite,  
AHMEDABAD 380015 INDIA  
TEL: +91.79.4006.6004  
EMAIL: shekhar@spectra-vision.com  
URL: www.spectra-vision.com

Spectra is an Indian Manufacturer in the Auto ID field since 1999 with various products. We have our expertise in Door Interlocking (Air locks, Mantrap System), Attendance, Access Control, Visitor Management, Canteen Management, Elevator Access Control with hardware and software both manufactured and developed in house for Pharma Industry and also catering to various industry verticals. We have our presence with 400+ channel partners and 6,000+ client base PAN India.

**Booth: B-5/A, Hall - 5**  
**SSPM SYSTEMS & ENGINEERS**

PLOT NO: 175 TO 178, G.I.D.C PHASE II, VATVA  
AHMEDABAD 382 445 INDIA  
TEL: +91.79.2583.0464  
EMAIL: sohil.memon@sspm.com  
URL: www.sspm.com

Manufacturer & Exporter of:

- Pharmaceuticals Solid Dosage Equipments & Powder Transfer System
- Vacuum Rated Sifter
- Paste Kettle
- Vacuum Rated High Shear Mixer (RMG)
- Fluid Bed Dryer / Processor (FBD / FBP)
- Vacuum Rated Mill
- Vacuum Rated Blender
- Tablet Coating Systems
- Solution Tank
- Deduster
- Single Bowl Processor
- Wash in Place System
- Lifter & Ancillary Equipment
- Roller Compaction System
- Laboratory And R&D Equipment for Solid Oral Processes

**Booth: A-5, Hall - 5**  
**Steinfurth GmbH**

Bonifaciusring 15, 45309 Essen, Germany  
ESSEN 45309 GERMANY  
TEL: +49.201.855.170  
EMAIL: sales@erwekaindia.com  
URL: www.steinfurth.de

As a specialist for electromechanical measuring systems Steinfurth develops and distributes innovative and customer-specific solutions. In the last 40 years, Steinfurth has globally established as a market leader for electromechanical measuring systems in the beverage industry, packaging industry, food industry, pharmacy industry and mining industry.

Since Steinfurth continuously develops or refines special measuring instruments amongst others for the beverage industry and reacts quickly to customer requests, the company is a reliable partner for quality products from Germany.

The approved electromechanical measuring instruments include: CO2 measuring instruments, measuring and calibration equipment, torque, calibration equipment for torque, logger systems, package testing equipment, carbonation systems, sampling devices, laboratory shakers, beer analyses instruments and mining systems.

Steinfurth Product Range:

- Semi Automatic Torque Measuring System TMS 2000
- Fully Automatic Torque Measuring System TMS 5000

LOCAL BUSINESS ASSOCIATES:

- ERWEKA INDIA PVT. LTD.
- Ahmedabad INDIA

**Booth: C-30/A, Hall - 5**  
**STERIDOSE SALES AB**

Himmelsbodavagen 7, PO Box -120.  
Tumba 14722 SWEDEN  
TEL: +46.8449.9949  
EMAIL: roger.lundblad@steridose.com  
URL: www.steridose.com

Steridose is a Swedish company specialized in the design and manufacturing of aseptic process equipment.

LOCAL BUSINESS ASSOCIATES:

- THERMOTECH ENGINEERING (PUNE) PVT. LTD.
- Pune INDIA

**Booth: H-02/A, Hall - 1**  
**STERILINE SRL**

Via Tentorio, 30-22100, Como (Co), Italy  
Como (Co) 22100 ITALY  
TEL: +39.031.592064  
EMAIL: info@steriline.it  
URL: www.steriline.it

STERILINE was established in 1989 for the purpose of producing automatic equipment for pharmaceutical companies. STERILINE is currently one of the most successful European manufacturers and suppliers of process equipment in the pharmaceutical industry, worldwide. STERILINE offers a wide range of high quality products which are specifically designed to meet the customer needs for high flexible applications. STERILINE has meanwhile grown to one of the most trusted equipment suppliers for the pharmaceutical industry, which supplies its equipment to the largest pharmaceutical companies worldwide.

STERILINE produces:

- Washing Mchines
- Depyrogenating Tunnels
- Filling - Capping - Decontamination Machines
- Filling Line Isolators
- Stand Alone Isolators

LOCAL BUSINESS ASSOCIATES:

- INCOME Group
- Mumbai INDIA

**Booth: D-11, Hall - 5**  
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E-50, ADDITIONAL INDUSTRIAL AREA,  
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NEAR FIRE STATION, AMBERNATH (EAST)  
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TEL: +91.251.262.6500  
EMAIL: suntecbioclean@gmail.com

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AN ISO 9001:2008 COMPANY



www.shaktipharmatech.com

Manufacturer & Exporter  
Lab - R & D - Pharmaceutical Machinery

Mini FBP-PLC  
(Table Top)



Cube Mixer



Wet Granulator Dosing Filling for Ointment

SDL-BI-layer Tablet Press



Vertical Main Drive  
(PLC)



**SHAKTI PHARMATECH PVT. LTD.**

27, saket Ind. Estate, N.H. No. 8A, Sarkhej-bavla Road, At. Moriaya, Ta. Sanand, Ahmedabad. Pin-382 213 Gujarat. INDIA  
Ph. : +91 79-26610707 M : +91 98253 18370, E-mail: sales@shaktipharmatech.com  
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**PREFERRED IN OVER 35 COUNTRIES**



Punch Validation Kit



Punch Storage Cabinet



Punch Polishing Kit

**PHARMACHINE** has been manufacturing Punches & Dies for 44 years. Today, it is the most reputed manufacturer of tooling in India. Our unflinching commitment to quality and conformance to Euro / IPT norms ensure that our tooling are both precise and consistent. This is depicted by the fact, that 50% of our production, is exported globally.

In 1989 **PHARMACHINE** started manufacturing Tablet Presses. **ADEPT Presses** are remarkably sturdy and simple to use. They have Front Control, AC Drive, Auto-lubrication and Compression Level Selection.

**Pharmachine INDIA**

52 Suyog Indl. Estate, LBS Marg, Vikhroli (W), Mumbai - 400083, India.  
Tel.: +91(22)25786007, 25793111 | Fax: +91(22)25771900, 26855108  
E-mail : pi@pharmachine.com | Website : www.pharmachine.com

URL: [www.suntecteknopak.com](http://www.suntecteknopak.com)

Promoted and managed by Professionals with experience of over 30 years in the relevant field and supported by well trained engineers & technicians for design, installation, commissioning, validation and documentation of our equipment and systems supplied in India and overseas.

We have fully equipped design and production capability to manufacture equipment meeting international standards and cGMP requisites.

Our Techno – Commercial Personnel are highly experienced, which they have attained during their long tenure in the same field.

SUNTEC specializes in:

- HVAC / Clean room Projects (System Design and supply of equipment & accessories, installation, validation and documentation)
- Bio-Safe and other controlled environs (System Design and supply of equipment & accessories, installation, validation & documentation).
- Modular Wall/Ceiling Panels, Doors and Accessories – MOC: Massive Impregnated High Pressure Laminate (HPL) Sheets, PCGI & S.S. (System Design and supply of equipment & accessories and installation).
- Sterilizing and Depyrogenating Tunnels for Glass vials and Ampoules.
- Unidirectional Air Flow Systems (formerly known as Laminar Air Flow Systems)
- Reverse Air Flow Containment Stations for Dispensing and Sampling.
- Containment Stations for Solvent Dispensing.
- Bio-Safety Cabinets and Fume Hoods.
- De-dusting Tunnels.
- Cleanroom Carts.
- Pre-filter Cleaning System
- Cleanroom accessories such as Air Showers, Garment Storage Cabinets, Pass Boxes, Pressurizing Modules and furnitures.
- Custom built HEPA filtered devices to meet any specific application.
- Pre and HEPA filters (including HEPA filters for high temperature application).
- Electricals: Total design for power distribution & lighting. Supply and installation of equipment, such as PCC/MCC including cabling.
- Piping: Utility & Process piping, Sterile and non-Sterile piping, Drainage piping, etc. From Design to Commissioning.
- We take up Projects on Turnkey basis or any part of it.

**Booth: C-9, Hall: 5**

**SWAN ENVIRONMENTAL PVT LTD**

PLOT: 922 & 935,  
Swami Ayyappa Co-Op Society,  
Madhapur  
HYDERABAD 500 081 Andhra Pradesh INDIA  
TEL: +91.40.4021.6184 / 85  
EMAIL: [info@swanenviron.com](mailto:info@swanenviron.com)  
URL: [www.swanenviron.com](http://www.swanenviron.com)

We Swan Environmental Pvt. Ltd., pioneers of supplying World Class Instrumentation manufactured by various overseas principals and we are the authorized exclusive distributors for more than 18 foreign principals from USA, Japan, UK, Germany, Italy, Singapore, Switzerland etc.

We have very good sales experience and separate setup for sales, service and customer support for above each and every division. We have sold more than 1200 units of TOC analyzers, (around 750 numbers to pharma Industry for Purified water and Water For Injectables) Make: Shimadzu with a market share of more than 80% and sold more than 4200 nos of Microbial air samplers, Make: VWR International PBI with market share of more than 85% all over India to various Pharmaceutical industries. We have more than 500 good pharmaceutical customers across India and we are regularly supplying our various equipments to their QC, Microbiology, Production and Engineering Depts.

**Booth: F-10, Hall - 1**

**SYNERGY THRISLINGTON**

Vill. Beer Plassi, PO. Manjholi,  
Distt. Solan, Himachal Pradesh  
NALAGARH 174 101 INDIA  
TEL: +91.1795.26.5375  
EMAIL: [sales@synergythrislington.com](mailto:sales@synergythrislington.com)  
URL: [www.synergythrislington.com](http://www.synergythrislington.com)

Thrislington Products Company Ltd., UK excelling in various kinds of partitions and doors since 1946 was taken over by the Synergy group in 2009. With this acquisition entire plant & machinery, products know how and all other intellectual property has come from UK to India as SynergyThrislington.

Its state-of-the-art plant is located at Nalagarh tehsil of district Solan, Himachal Pradesh in India. The well laid out facility is spread over 4.5acre land with the covered area of 85,000 Sq. Ft.

Strength of the company arises out of its team of professionals, product know how and inbuilt culture of customer care and delivery commitment.

Synergy Thrislington, an ISO - 9001:2008 certified company today serves varied paneling and door requirements to pharmaceuticals, healthcare, hospitality, educational institutions, corporate offices, shopping malls, high rise buildings, labor accommodation, site offices, cold room / cold storage and prefabricated demountable shelters for different industries etc.

**Booth: C-2/A, Hall - 5**

**TAPASYA ENGINEERING WORKS PVT. LTD.**

Plot No. A/212, Road No. 30,  
Wagle Industrial Estate,  
THANE 400 604 INDIA  
TEL: +91.22.6157.9400  
EMAIL: [shreyas.shetty@tapasyaindia.net](mailto:shreyas.shetty@tapasyaindia.net);  
[sagun.sawant@tapasyaindia.net](mailto:sagun.sawant@tapasyaindia.net)  
URL: [www.tapasyaindia.net](http://www.tapasyaindia.net)

Tapasya Engineering has been in the forefront of Granulation equipment for the pharmaceutical industry, since its inception in 1960. We service Food, Chemical and Allied Industries in addition.

Our presence in the Industry for more than 50 years has enabled us to address the ever evolving needs of our customers. We have expanded to offer our customers an Integrated Granulation Line backed with years of process knowledge and expertise.

To enhance continuously our offerings we have created 2 World Class manufacturing units. TAPASYA HOUSE is a modern assembly line and a test center while ALPHA HOUSE is a state of the art manufacturing setup.

The state of the art set-up goes hand in hand with our experienced and dynamic talent pool to strengthen and optimize the solutions we offer.

At Tapasya, we are guided by our Vision & Values that reflect in our commitment to all the Stake Holders.

**FOREIGN PRINCIPALS:**

- KORSCH AG - GERMANY
- THOMAS ENGINEERING INC. - USA
- HEINO ILSEMANN - GERMANY
- SKY SOFTGEL - SOUTH KOREA

**Booth: F-09A + F-09 B, Hall - 1**

**TECHNOFOUR ELECTRONICS PVT. LTD.**

Gat No.: 3 (PT), 243 (PT), Kasurdi (Kheba)  
Khed Shivapur-Saswad Road,  
Opp. Hotel Yogiraj Resort,  
Post: Khed Shivapur, Taluka: Bhor,  
PUNE 412 205 INDIA  
TEL: 91-2113-305200, 305245 / 46  
EMAIL: [teplinbox@gmail.com](mailto:teplinbox@gmail.com); [suresh@tepl.co.in](mailto:suresh@tepl.co.in);  
[pcssales@tepl.co.in](mailto:pcssales@tepl.co.in)  
URL: [www.teplindia.com](http://www.teplindia.com)

Leading manufacturer & exporters of Product checking systems namely Metal Detectors, Dedusters, Checkweighers & Pin Hole Detectors. All these systems are widely used in Pharmaceuticals, Chemical, FMCG, Food Industries.

More than 10,000 Metal Detectors & 6,000 Checkweigher systems are working across the globe.

All these systems are based on the latest technology & are having latest features at par with the best in the global market today. The systems are working in European countries, Russia, African countries, South East Asia, America etc.

Prompt after sales support arrangement in the continents referred above.

**Booth: D-4, Hall - 5**

**THE BOMBAY ENGINEERING WORKS**

12, Navyug Industrial Estate,  
185, T. J. Road, Opposite Swan Mills, Sewree (West)  
MUMBAI 400 015 INDIA  
TEL: (022) 2413 59 59 / 2413 70 94  
EMAIL: [bomeng@vsnl.com](mailto:bomeng@vsnl.com)  
URL: [www.bombayengg.com](http://www.bombayengg.com)

Manufacturers & Exporters of

**TABLET SECTION:**

- Fluid Bed Dryer
- Rapid Mixer Granulator
- Tray Dryer
- Mass Mixer, Drum Mixer, etc.
- Multimill. / Communiting / Fritz Mill
- Mechanical Sifter, Vibro Sifters. / turbo sifters / Roto Sievers
- Oscillating Granulators
- Blenders (Double Cone, Octagonal, "V" Type, "Y" Type, Cage Blender, etc.)
- Planetary Mixers
- Material Handling Systems, (Lifters, Tilters, Ipc Containers, etc.)
- Tablet press
- Tablet Dies & Punches

**COATING SECTION:**

- Auto coaters
- Coating Pans
- Mini Cota (spraying systems)
- Polishing Pan

**LIQUID SECTION:**

- Automatic Liquid – oral manufacturing plant
- Filter press
- Inline homogenisers / top entry homogenisers
- Portable stirrers with stand etc
- Agitators
- Tanks / Vessels upto 500000 ltrs cap.
- Pumps (centrifugal, Lobe, Metering types)
- Bottle washing Machine
- Liquid filling Machine
- Bottle capping machine
- On line inspection machine
- Labeling machine

**CAPSULE SECTION**

- Vibrosifter
- Double cone blender
- Capsule filling machines
- Capsule loaders

**OINTMENT SECTION:**

- Ointment manufacturing plants fully automatic untouched by human hands
- Planetary mixers VJHSE types
- Colloid mill
- Inline Homogenisers / batch type homogenisers
- Tube filling machine

**DRY SYRUP SECTION:**

- Blender
- Sifter
- Powder filling machine

**INJECTABLE SECTION:**

- Dry heat Sterilizer
- Autoclave (steam sterilizer)
- Multicolumn distillation column
- Wfi storage tank
- Manufacturing vessel
- Pressure vessel
- filling vessel
- Membrane filter holders
- Sterility test apparatus
- Pure Steam generator

**PACKING SECTION:**

- Packing

**Booth: B-6, Hall - 5**

**THERMOLAB SCIENTIFIC EQUIPMENTS PVT. LTD.**

THERMOLAB HOUSE  
PLOT NO.19, VASAI MUNICIPAL INDUSTRIAL AREA,  
UMELA ROAD, VASAI WEST  
VASAI WEST 401 207 INDIA  
TEL: +91.250.232.3156  
EMAIL: [pravin.mhapankar@thermolabscientific.com](mailto:pravin.mhapankar@thermolabscientific.com)  
URL: [www.thermolabgroup.com](http://www.thermolabgroup.com)

With over 45 years of rich experience, Thermolab has carved a niche for itself by providing all technical grids under one roof, effectively matching its client's expectations. Thermolab a renowned brand in manufacturing and exporting of Stability Chambers, Walk-in Chambers, Photostability Chambers, Ovens, Incubators, Cooling Cabinets, Autoclaves and Deep freezers... now launches Hyzone class II Microbiological Safety Cabinet as per EN 12469:2000. THERMOLAB Group Company also offers calibration, validation and testing services for plant and machinery. Thermolab has introduced Stability Storage and Analytical Testing Laboratories for stability Studies, which is equipped with all the necessary equipment for stability analysis

**Booth: C-30/A, Hall - 5**

**THERMOTECH ENGINEERING (PUNE) PVT. LTD.**

PLOT NO.: 65 / 3, 65 / 4 & 65 / 5,  
D- II BLOCK, MIDC, CHINCHWAD,  
PUNE 411 019 INDIA  
TEL: +91.20.66302656 / 57 / 58  
EMAIL: [sales@thermotechengg.com](mailto:sales@thermotechengg.com)  
URL: [www.thermotechengg.net](http://www.thermotechengg.net)

**MIXING TECHNOLOGY FOR YOU**

THERMOTECH is Process Engineering Company, Designing & Manufacturing Process Equipments & specializing in MIXING TECHNOLOGY. Company Products are catering to wide Industry segment like Chemicals, Food, Pharma, Minerals, Paint etc.,

An ISO 9001 & CRISIL rated company have many innovative products like Tooth Paste Mixers, Cream & Lotion Mixers and Energy efficient Agitators to its credit. Moto of company is to supply optimum design and best quality with highest safety standards. Many Multinational groups like ALFA LAVAL, AMWAY, BASF, CIBA, KANSAI, CUMINS, DESMET, LUBRIZOL, PFIZER, TETRA & many more are our customers.

Group is already exporting products to US, Russia, Indonesia, Philippines, Singapore, Thailand, Malaysia, Saudi Arabia, Dubai, Tanzania & other countries and rewarded by repeat orders due to good product quality.

FOREIGN PRINCIPALS / LOCAL BUSINESS ASSOCIATES:  
· STERIDOSE SALES AB - Sweden

**Booth: A-10, Hall - 5**  
**TOFFLON (INDIA) PVT. LTD.**

# 4 & 5, 6th Main, 2nd Cross, Tayappa Garden, Bilekahalli, Deverachikkana Halli Road,  
BANGALORE 560076 INDIA  
TEL: +91.80.4170.0254  
EMAIL: marketing.in@tofflon.com  
URL: www.tofflon.com

Tofflon India is a subsidiary of Shanghai Tofflon Science & Technology Co Ltd. Tofflon expertise in manufacturing freeze dryer and mainly focus on Lyo sterile key area. Tofflon offers total solution for freeze drying systems including Auto loading & unloading system, vial & ampoule filling lines, Isolators & barrier system, Vial & Ampoule auto inspection system, solution preparation system, freeze drying cycle R & D & optimization. all machineries are manufactured according to cGMP & USFDA compliance. since from 1993 Tofflon have done more than 3000 freeze drying projects and installation globally. Tofflon also have subsidiary companies at Itly, USA & India.

**Booth: A-2 + A-3, Hall - 1**  
**TSA PROCESS EQUIPMENTS PVT. LTD.**

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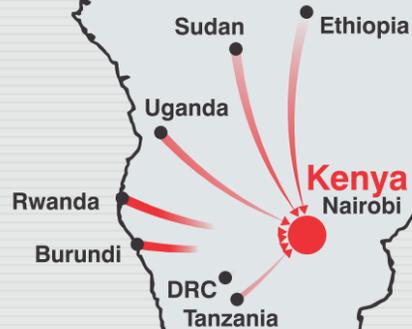
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## Editorial



**Rajesh Shah**  
Editor-in-Chief  
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In just three years time, global demand for primary pharmaceutical containers will increase to over USD 57 billion in 2017. With a healthy growth rate of over 6.6% plus every year, primary pharmaceutical containers are indeed all set to rule the roost. But the fastest growth is anticipated for prefillable syringes, which will gain applications as advances in biotechnology lead to the introduction of new parenteral therapies. The same trend will also create above average growth in world demand for parenteral vials and ampoules. In spite of increasing competition from alternative containers, plastic bottles will remain the most widely used package globally for oral drugs distributed in bulk and prescription dose volumes to retail and mail order pharmacies.

In the coming days, months and years, the domination of plastic bottles will continue. Plastic bottles will dominate applications as containers for OTC medicines sold in tablet and capsule quantities of 50 or more. Blister packaging will comprise the second-largest selling group of primary pharmaceutical containers and will generate above average growth in demand based on adaptability to unit dose and clinical trial formats with expanded label content, high visibility, and built-in track and trace features.

The good news is India along with China will record the fastest growth in drug packaging demand due to rapidly expanding pharmaceutical production capabilities, burgeoning drug exports, and the phasing-in of extensive medicine quality regulations. Indian pharma machinery market expects it to be around Rs. 1,500 crore and this includes capital equipments like processing and packaging machinery, utilities, equipments and other ancillary products. The pharma machinery industry grows at an annual rate of 10 per cent and contributes to about 3 per cent of the overall machinery sector of India. About 5 per cent of the total domestic pharmaceutical machinery requirement is imported; where as 25 per cent of India's total output is exported. Still a respective percentage of pharmaceutical companies are importing from foreign countries to fulfill their production requirements. This results in what could be described as a deprived stage of much capable & knowledgeable Indian pharma machinery engineering companies.

I sincerely hope you will indeed enjoy what we have brought specially for you in this second edition of 2014.

At this stage, through this communication, I, on behalf of the Indian Pharma Machinery Manufacturers' Association (IPMMA) and entire pharma machinery manufacturing industry, take this opportunity to invite all the pharma manufacturing professionals to attend the PHARMA Pro&Pack Expo 2014 – an international exhibition on TOTAL pharma manufacturing technologies with a special pavilion – PhamaLAB Expo 2014 (both being organized by IPMMA & GPE EXPO PVT. LTD.) and co-located exhibition – IPHEX India 2014 (Organized by PHARMEXCIL) – to witness the growth story, latest technological updates, business networking and creating & reviving the new contacts among the industry – within India and internationally. PHARMA Pro&Pack Expo 2014 offers an unparalleled opportunity to meet more than 480 exhibiting companies from 18 countries and more than 1,400 international buyers from 140 nations across the world. Get registered now online at [www.PharmaProPack.com](http://www.PharmaProPack.com). Looking forward to welcome you at PHARMA Pro&Pack Expo 2014, Mumbai.!

I also take this opportunity to wish you & your family & all associates a very happy & safe summer vacation!

## From the Desk of the Publisher



**Paresh Jhurmurvala**  
Publisher



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Carrying forward from what our Editor has rightly pointed out, I am reminded of a recent McKinsey report which has made some very healthy forecasts for the pharma packaging sector. According to the report, this segment is expected to reach the USD 50 billion mark by 2015. According to another report by the Freedonia Group, world pharmaceutical packaging demand will increase 6.4 percent annually to USD 90 billion in 2017. Nano technology, the global market for Nano-enabled packaging for blisters was USD 941 million in 2008 and is expected to grow to USD 2.10 billion by 2014. Indian pharma packaging industry which is worth about USD 23 billion is growing at a rate of 15% annually. Sophisticated drug products, stringent government requirements and more prominent players with new emerging markets have increased the demand for pharmaceutical packaging material. Based on the operation of extensive and diverse drug-producing industries, Western Europe, the US, and Japan will account for nearly 60 per cent of this amount. Brazil, Mexico, and Turkey will also evolve into fast-growing pharmaceutical packaging product markets as drug-producing sectors are upgraded and diversified, especially in the area of generic drugs.

Coming back home the much awaited second edition of the PHARMA Pro&Pack Expo 2014 (PPPE 2014) is all set to take off during May 21 to 23, 2014. The three day exhibition featuring the complete pharmaceutical manufacturing range and providing a unique platform to buyers and sellers will be held at Mumbai Exhibition Center, Mumbai, India. Hailed as the industry's very own show, the exhibition having a special focus on promoting 'BRAND INDIA' to both the Indian and world pharma industry is being jointly organised by the Indian Pharma Machinery Manufacturers' Association (IPMMA) and GPE Expo Pvt. Ltd. PHARMA Pro&Pack Expo 2014 will be a common platform for more than 20,000 pharma trade professionals to come together to explore the cutting edge pharma manufacturing technologies by the BRAND INDIA.!

So start packing your bags. See you in Aamchi Mumbai.!

I also wish all of you a Very Happy & Safe summer holidays! Also please do not forget to write to us with your valuable feedback. We will be more than happy to know what you feel about PHARMA Pro&Pack magazine. Also feel free to send us industry and trade updates.

Happy & Inspired Reading of this second issue of 2014 of PHARMA Pro&Pack to All of You.!

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**You Demand. We Deliver.**

# PHARMA Pro&Pack Expo 2014, PharmaLAB Expo 2014 & iPHEX 2014: All set to take off together to create new landmark in Indian pharma manufacturing industry

The second edition of PHARMA Pro&Pack Expo 2014 is receiving an excellent response from the pharma industry – both from exhibitors and visitors and is ready to take off to set one more milestone in the Indian pharma manufacturing industry. As anticipated, an overwhelming response from the pharma fraternity is being observed for the three-day long PHARMA Pro&Pack Expo 2014, PharmaLAB Expo (jointly organized by the Indian Pharma Machinery Manufacturers' Association – IPMMA and GPE EXPO PVT LTD) and iPHEX 2014 (organized by PHARMEXCIL)

**PharmaLab  
expo 2014**  
Mumbai Exhibition Center  
Mumbai India - May 21-23, 2014

**PHARMA  
PRO&PACK EXPO 2014**  
Mumbai Exhibition Center, Mumbai INDIA  
May 21-22-23, 2014

**iPHEX  
2014**  
International Exhibition for  
Pharma and Healthcare  
[www.iphex-india.com](http://www.iphex-india.com)

during May 21 to 23, 2014 at Mumbai Exhibition Center, Mumbai, India. These three events will encompass the entire spectrum of the pharma manufacturing technologies from processing & packaging machineries & materials, environment control, flooring & clean room equipments & services, analytical lab equipments & services, utility products & services, entire range of pharma chemicals including API, bulk actives, additives, excipients, CROs, formulation, manufacturing services and many more.

It will not be an exaggeration to state that the Indian pharmaceutical industry has been witnessing noticeable growth in recent years, driven by rising consumption levels in the country and strong demand from export markets. A large pool of talented young and experienced pharma professionals serving the Indian pharmaceutical industry are also acting as the nation's growth engine. In the old days, the Indian pharmaceutical industry was not as advanced as there were few numbers of pharmacy institutions and colleges available and emphasis was not given to technological research and developments in the field of pharmacy. But now the scenario has undergone a sea change with more and more institutions and colleges offering a wide range of educational options.

Along with the development of pharmaceutical companies, pharmaceutical machinery manufacturers are also advancing themselves to meet the new challenges of pharmaceutical industries. Most of the leaders in the field are looking towards advanced market like the US and Europe for their pharma products.

Looking at the capabilities of Indian pharma machinery companies, many international machine manufactures have started joining hands with Indian companies, which have helped the Indian pharmaceutical industry to procure enhanced and improved India made machinery at a price that is almost one fourth. Because of the progressive attitude of the

Indian pharma & packaging machinery manufacturers a lot of progress and headway has been made in the world market. No wonder India's increasing clout in the pharmaceutical domain is now being universally acknowledged. No wonder then the Indian pharma machinery industry is flourishing and growing at the massive rate.

A net result of all the developments taking place is that the Indian pharmaceutical market is expected to

grow by leaps and bounds not just in terms of scale but also volumes. This will push pharmaceutical machinery manufacturers beyond their limits to innovate, offer advanced technologies and yet maintain a competitive advantage (over European manufacturers) in terms of cost.

To cater to this rising need and the growth of Indian pharmaceutical industry as a whole, PHARMA Pro&Pack Expo 2014 & iPHEX 2014 are the exhibitions which offer an unparalleled business platform where even smallest entrepreneur of pharma industry can participate along with other industry's giants to be a part of BRAND INDIA. A unique business domain opens the door of opportunities to do business across the globe for all the exhibiting companies no matter at what scale they operate. PHARMA Pro&Pack Expo 2014 and iPHEX 2014 provide an ideal platform to all the small and big stakeholders to explore business opportunities across geographical boundaries.



Moreover, key decision makers of the Indian pharmaceutical industry have joined the exhibition advisory board of PHARMA Pro&Pack Expo 2014, Mumbai Exhibition to provide their valuable guidelines to add more meaning to each and every visit by each and every visitor attending the exhibition.

Also the pharma fraternity gatherings organized to disseminate information about the PHARMA Pro&Pack Expo 2014 exhibition among the pharma professionals located at different pharma – clusters in India received overwhelming response as this attempt to reach out to these professionals right at the locations where they are based was much appreciated. These road shows offered a unique opportunity for a direct one to one meeting, share information about the exhibition and also to personally extend an invite to all these professionals who are working day and night in the service of the pharma industry in particular and that of the country at large in general. The road shows also proved to be an excellent opening to extend product promotions to a very large number of users in the shortest possible timeframe.

PHARMA Pro&Pack Expo 2014 and PharmaLAB Expo 2014 are supported by 14 national & international pharma trade associations and export promotion council (Govt of India enterprises). This include; Indian Pharmaceutical Association (IPA), Confederation of Indian Pharmaceutical Industry (CIPI), Bulk Drug Manufacturers Association (India) - [BDMA India], American Asso. of Indian Pharmaceutical Scientists (AAiPS), Bangladesh Association of Pharmaceutical Industries, Pharmaceutical Manufacturers Group of Manufacturers Association of Nigeria (PMG-MAN), Federation of East African Pharmaceutical Manufacturers (FEAPM), Association of Pharmaceutical Producers of Nepal (APPON), EEPC India (Engineering Export Promotion Council of India), Indian Analytical Instruments Association (IAIA), Ambala Scientific Instruments Manufacturers Association (ASIMA), Hologram Manufacturers Association of India (HOMAI), Indian Pharmacy Graduates Association (IPGA).



The co-located international exhibition – iPHEX 2014 fulfills the complete spectrum with entire range of pharma bulk actives, chemicals, formulations and research. The industry at large both at the national and the global levels have taken an enthusiastic note of the PHARMA Pro&Pack Expo 2014 and the co-located two exhibitions.

The phenomenal success of the first edition of the PHARMA Pro&Pack Expo in 2013 has confirmed the core values and the mutual benefits that stand to accrue for all those exhibiting at the expo and also all those visiting the PHARMA Pro&Pack Expo 2014. It is remarkable that more and more new companies have confirmed their participation joining industry majors at PHARMA Pro&Pack Expo 2014 – hailed as the most awaited and most promising international exhibition to be held at Mumbai.



It is significant that more than 480 exhibiting companies from 18 countries are taking part at these three exhibitions. Also the expo will be attended by more than 20,000 pharma trade attendees including more than 1,500 international buyers from 140 nations across the world.

No wonder then the road shows have been lauded by one and all in the industry. This first-ever initiative taken by PHARMA Pro&Pack Expo of meeting the pharma fraternity at the pharma clusters both at the national and global level to disseminate information is highly appreciated by all the professionals. The road shows also resulted in one-to-one meeting with more than 1,600 potential buyers. These road shows took place at Mumbai, Pune, New Delhi, Hyderabad, Bangalore, Goa, Indore, Panchkula, Baddi, Dehradun, Gangtok (Sikkim), Daman, Egypt, Bangladesh and Nepal.

PHARMA Pro&Pack Expo 2014 has enormous benefits on offer to all the participants and visitors. For more information about PHARMA Pro&Pack Expo 2014 visit our website [www.pharmapropack.com](http://www.pharmapropack.com) or email us on [contact@pharmapropack.com](mailto:contact@pharmapropack.com). **PPP**

## It's simply logical, to be with the industry..!

# IPMMA'S PHARMA Pro&Pack Expo to be Pharma Machinery industry's benchmark show in the years to come

Leading industry personalities share their opinion and views on the Pharma Pro&Pack Expo series

The most unique thing about PHARMA Pro&Pack Expo is that the show is organised and promoted by the machinery manufacturers themselves. With the focus of the show on technology, on Brand India and Competence, the idea is to showcase each and every machine in different sectors. I also think that the show provides an ideal opportunity to all the stakeholders to showcase the capabilities of the Indian machines. According to me the only small setback is the timing of the show in the month of May. The exhibition dates fall almost in the last week of May when many prospective customers may be out on vacation with their families. But this just an apprehension which crossed my mind!

• **Mr. C.S. Shetty, Crystal Automation Pvt. Ltd.**

PHARMA Pro&Pack Expo is a very well undertaken initiative of IPMMA. It provides a unique one to one platform to the machinery manufacturer and the end user. Everything comes under a common umbrella providing a level playing field from the smallest of the companies to the biggest of the entities. Such expos provide an opportunity to both the machinery manufacturers and the customers to better understand each other and each other's needs. I wish all the very best to the expo.

• **Mr. Mahendra Mehta, Parle Elizabeth Tools Pvt Ltd**

## PHARMA PRO&PACK EXPO 2014

Mumbai Exhibition Center, Mumbai INDIA  
May 21-22-23, 2014

PHARMA Pro&Pack Expo is unique in the sense that an expo is organised of the industry, by the industry and for the industry. Because of the distinct platform it provides to all the stakeholders the benefits percolate to all the sectors and segments. In the long run it effectively displays and show cases the unique capabilities and efficiencies of the Indian pharma machinery segment.

• **Mr. N.M. Mehta, Newtronic Lifecare Equipment Pvt. Ltd.**

PHARMA Pro & Pack is all set to become a standard fixture in the years to come. The show concurrent with Pharmexil automatically showcases Indian machinery to the world and offers a readymade platform to the buyers and sellers to interact. This I suppose is a very important aspect. The second edition of the show is going to prove a major event and a roaring success with a number of leading bodies and organisations joining hands. A net result of the show is that not only Brand India gets promoted at the global level but the entire Indian pharma machinery segment gets global recognition in the process.

• **Mr. K.P. Kumar, Rapid Pack Engineering Pvt Ltd**

IPMMA PHARMA Pro&Pack Expo is very distinctive as its fundamental and basic aim is to provide an ideal platform to all the IPMMA members so that they have national and international exposure. The first edition of IPMMA was held just last year and 2014 will be the second year. The industry at large will reap the fruits of all these efforts in the long run. This expo series is going to prove very beneficial to the industry at large. Also IPMMA being a representative of the entire industry there are also no fears or apprehensions of monopolistic practices. Here everybody gets an equal footing.

• **Mr. Sameer Sampat, Ravi Kiran Industries**

The biggest advantage of PHARMA Pro&Pack Expo is that it provides a platform, an opportunity to all the players in the industry. Even the road shows organised to promote the expo were very good and complement the overall show. Even the timing of the show with the new fiscal having just begun seems to be good as prospective buyers will come in with fresh and clear cut budgetary allocations. Also many players who do not get an opportunity to participate in other shows can very well take advantage of the PHARMA Pro&Pack Expo. Not only there will be a wide range of vendors but there will also be opportunities for new vendors to show case their products and services.

• **Mr. Amresh Singh, Compromec**

There was a long standing demand of the industry at large to have the industry's own exhibition on pharma machineries. This demand since 2001 finally culminated in the first mega show hosted by IPMMA last year. The second edition of PHARMA Pro&Pack now to be hosted in May 2014 will be better in the sense that we have tried to improve upon all the shortcomings we had experienced in the maiden year. Also this unique annual feature has many positive fallouts besides providing an ideal platform to all the stakeholders. A feeling of pride has been instilled in all IPMMA members for they rightly feel having a joint ownership of the show. Also a measure of success is in the repeat participation by many big and small names in the industry at large. I wish all the very best to PHARMA Pro&Pack Expo 2014.

• **Mr. Rajesh Shah, Chairman,**  
Maharshi Udyog and President – IPMMA

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Undoubtedly Pharma Pro & Pack Expo 2014 offers a proven platform for every single micro scale technocrat to showcase their skills at the global level. This would be a great leap in the direction to position Brand India worldwide. More interestingly as a visitor you get enough space to interact with the entrepreneur at full length at the Pharma Pro & Pack Expo. I indeed look forward to meeting you at the Pharma Pro & Pack Expo 2014.

- **Mr. S.G. Belapure, President, Zydus Cadila Healthcare Ltd.**

Success of any event depends on the work that has been put behind the effort. The successful hosting of the 2013 inaugural show of PHARMA Pro&Pack followed now by the 2014 edition underlines the importance of the round the clock efforts put in by IPMMA and other stakeholders to make this a success. Foot falls in general and those of serious trade professionals are also likely to increase. Best of Luck to PHARMA Pro&Pack Expo 2014!

- **Mr. Rattan Singhania, Director - Pharmachine India**

Though 2013 was the first year for the show, the professional manner in which the three day event was organised spoke of world class management. The manner in which the show was managed was nice and smooth. The quality of visitors coming in to the show was very good. Exhibitors also got a very good opportunity to interact with potential buyers. This is perhaps the reason why many people who had participated in 2013 will be present at the second edition of the show as well.

- **Mr. Vishesh Parekh, Director INCOME Marketing Pvt. Ltd.**

PHARMA Pro & Pack Expo 2013 was a good experience with good quality visitors mostly decision makers visiting us with their genuine requirements. I hope and I believe that this show will better and mature with each year. Surely there is no looking back now. I also suppose looking to the anticipation; participants may be booking in bigger spaces than what they did in 2013.

- **Dr. Parag Shah, GM (Sales - Global Markets), Kevin Process Technologies Pvt. Ltd.**

Pharma Pro&Pack Expo 2014 has emerged as a Can't Miss event for both exhibitors and visitors. They enable a huge gathering of who's who of the pharma world - the buyers and the suppliers, thereby bringing technology and people together.

- **Mr. Mohit Kumar, Head Engineering Projects (Pharma), Ranbaxy Laboratories Ltd.**

I was excited with the successful attendance of high quality buyers who attended the show as this was the unique platform to meet the Indian customers directly.

- **Mr. Dave Keefer, President, Elizabeth Carbide Die Co., USA**



PHARMA Pro & Pack Expo 2013 remained a very busy event for us and also for other exhibitors. It was indeed a pleasant surprise to have such good quality attendance of buyers and decision makers. Our company has received excellent acceptance and has good number of inquiries with record sales during the show. No wonder then Charles Ischi AG definitely will be exhibiting in 2014 Exhibition of PHARMA Pro & Pack Expo.

- **Ms. Susan Fowlke, Charles Ischi AG, Switzerland.**

Organising PHARMA Pro&Pack Expo 2013 was a fantastic effort by IPMMA and GPE Expo Pvt. Ltd. Not only was the organisation very good but the overall profile of visitors was also excellent. The crowd was a quality crowd where you remember the name of the visitor..! Also one to one interaction with the buyers was possible as compared to other large exhibitions where the attention span to every visitor remains low. First step taken is very successful step by the industry as compared to the results. As the expectations were low against the performance and the response we have got is good and this is the positive aspect which we have to take it forward in 2014.

- **Mr. Aasif Khan, Managing Director, Fabtech Technologies Intl Pvt. Ltd.**

I found the 2013 inaugural edition of PHARMA Pro&Pack Expo as a very well managed business event. Though it was the inaugural issue, a lot of decision makers visited us at our booth. At the same time, it is also not overcrowded and one could find both time and space to meet buyers to understand their needs as compared to other international shows, where flow of people is more often than not on a continuous basis and exhibitors missing out genuine buyers.

- **Mr. Alexander, ROTA Verpackungstechnik GmbH & Co. KG, Germany**



PHARMA Pro&Pack Expo last year provided a very useful, helpful and constructive platform to all the stakeholders not only to network and renew business contacts and develop new ones but also to update on the new technologies that have come into the market. Such shows prove to be of great help to the industry at large and especially when the industry itself gets together and organises such shows. All the very best to PHARMA Pro&Pack Expo 2014!

- **Mr. Anil Kumar, GM - Engineering Alkem Laboratories Ltd.**

Last year when the first show was organised, almost everybody felt that the maiden attempt and maiden endeavour was very good with a reasonably good response. But I feel that it would be in the coming years that the show will cut across all boundaries and will be recognised across sectors and segments. Surely it will develop and catapult as the premier show of the industry.

- **Mr. Karnik Parikh, Director Pharmed India Pvt. Ltd.**

Both IPMMA and GPE Expo Pvt Ltd have to be lauded for the tireless efforts they have put in behind bringing together the PHARMA Pro&Pack Expo. After the first show of 2013, I am sure the second show of 2014 will set new benchmarks and milestones. For the industry at large, the PHARMA Pro&Pack Expo 2014 is going to prove a meaningful and landmark show. Over a period of time, this series is all set to grow big, big and big with more and more companies participating and more and more buyers coming to the show.

- **Mr. Maulik Dave, Chairman & MD, Harikrushna Machinetech Pvt. Ltd.**

It was in the year 2013 that the best thing happened for the pharma machinery manufacturers. PHARMA Pro & Pack Expo 2013 proved that it good things happen when everyone in the industry join hands for a common good. Now the 2014 show is going to be the biggest show in the pharma manufacturers' space. Also we consider ourselves as fortunate and honoured to be a part of such an important event.

- **Mr. Prashant Kavale, Director, GMP Technical Solutions Pvt. Ltd.**

IPMMA's very own first ever exhibition was very well organised. The expo was well organised and we had good quality of visitors and good business. No wonder then we look forward to meeting you in PHARMA Pro & Pack Expo 2014 show!

- **Mr. Kirit Shah, Director Liquipack**

Even though 2013 was the first show of the industry, everything was excellent. I am hopeful that 2014 would surely see more action. The business environment and the quality visitors will bring most of the exhibitors back!

- **Mr. Chandrakant Kothari, Managing Director, Precikot Pharma Pvt Ltd**



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**PHARMA  
PRO&PACK EXPO 2014**  
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I suppose in the coming days the IPMMA PHARMA Pro&Pack Expo is going to set a basic standard or a benchmark for the industry. I say so because at present there are so many exhibitions and shows taking place in the country that it is physically not possible for any company to participate in each and every show. Also in terms of expense, time given and manpower it is not feasible to attend all such shows. Companies are confused which show to attend and which to avoid. But the way and the manner in which IPMMA is going ahead with building up the brand of the PHARMA Pro&Pack Expo shows, I am sure the needs and the requirements of the industry stands to be greatly fulfilled. Wishing the Best of Luck to IPMMA!

• **Mr. Mahesh Mevada, Brothers Pharmamac (India) Pvt Ltd**

Expectations and anticipations are always difficult to fulfill. But the quality of visitors at PHARMA Pro & Pack Expo 2013 was better than expected. Quality people visited and we are happy with the gathering. Our expectations were further fulfilled when more foreign buyers visited than what we had anticipated. We definitely would like to come back at PHARMA Pro & Pack Expo 2014 to participate with bigger space..!

• **Mr. Sandeep Shah, Managing Director Erweka India Pvt Ltd**

In 2013, it was a maiden attempt of IPMMA with GPE to organise the first ever very own expo of the Indian industry. It being the first show there were apprehensions and scepticism but overall the show went off very well winning plaudits from different quarters. Even for exhibitors like us, it proved to be very beneficial in terms of inquiries, business and knowledge gathering. From our side we have also made suggestions to IPMMA to further better the show and we look forward to more such annual events in the years to come. Just five to ten years back, there were hardly any exhibitions with just one or at the most two exhibitions in a year. But now exhibitions have become very popular with a host of exhibitions every year. We had to form two different teams as an exhibition in Jakarta takes place along with the Pharma Pro&Pack expo in Mumbai.

The Pharma Pro&Pack Expo is really helpful in growing of business and gives very good mileage in brand and image building. Because of the good response we are able to generate from shows like the PHARMA Pro&Pack we have even reworked our overall marketing strategies and now exhibitions are our main thrust area.

• **Mr. Pranay Patel, Director NPM Machinery Pvt. Ltd.**

PHARMA Pro & Pack Expo 2013 was very good effort to organize such good quality exhibition. Visitors' profile was excellent and the response was beyond our expectations! In 2014, we are looking forward with bigger space.

• **Mr. Mahendra Panchal, Director FLUIDPACK**

Good show. Good arrangements. Good profile of visitors. We are exhibiting in 2014!

• **Mr. Chintan Shah, Mr. Rajesh Panchal, Directors, Propack Technologies Pvt Ltd**

We were happy with our participation last time because of the good organisation and overall management coupled with good quality trade visitors to our booth. We will be definitely exhibiting at 2014.

• **Mr. Apurva Shah, Managing Director, TSA Process Equipments Pvt. Ltd.**

IPMMA deserves congratulations for successfully working out this concept of a show which the industry could rightfully claim as its own. We got good response in 2013 and we have already made reservations to participate in PHARMA Pro & Pack Expo 2014.

• **Mr. Anand Ratna Director Kamal (E) Industries**

The sheer number of pharma manufacturing units is very large and coupled with this there is a high demand of various machines. Such shows do help in bringing all the players on a common platform. Also the overall quality from the management to visitors at PHARMA Pro & Pack Expo 2013 was very good.

• **Mr. Reiner Lemperle, Gebryder Lodgie Maschinenbau GmbH**

For a very long period there was this feeling amongst the Indian pharma machinery manufacturers to have their own show. This dream which took a long gestation period was finally realised last year. The industry now has its own show and everyone in the industry should now contribute and invest in this PHARMA Pro&Pack annual event to make it a grand success.

• **Mr. Darshan Mewada, Director NKP Pharma Pvt. Ltd.**

As an exhibitor at the first show last year, we were satisfied with the overall arrangements in general and the flow of visitors in particular. It was a well organized show with good facilities. The show provided an excellent business platform and we were successful in getting good buyers from several African countries. Because of this good response and we have given booking for repeat participation..!

• **Mr. Jaysukh Kanadia, Director Captech Engineers**

Pharma Pro & Pack and iPHEX provide the only proven platform where micro to large scale companies exhibit their products and services. The business ecology at the show is healthy and the exhibitors get an excellent opportunity to showcase the technologies and also the visitors get a wide range of options to select from. According to me this is an unmatched and an unparalleled event which nobody can afford to miss.

• **Mr. Alok Ghosh, President, Technical Operations, Lupin Ltd.**



The quality was quite good and we were very happy to introduce our new products during PHARMA Pro & Pack Expo 2013. We would be exhibiting again in 2014!

• **Mr. Bassler Hans Jurgen, Skan AG, Switzerland**

One of the reasons for success of the Pharma Pro&Pack Expo last year was the way and manner in which it was promoted. The overall quality of visitors was extremely good and we had good business inquiries during the three days. We will be there at PHARMA Pro & Pack Expo 2014.

• **Mr. Ashish Meghani, Managing Director, Wraptech Machines Pvt Ltd**

I feel the initiative undertaken by IPMMA of organising such an expo is very promising. In 2013 inaugural edition, the turn out at the show in the first two days was indeed amazing. In the coming years, this event will surely become a big industry event in India with a lot of people from across the world also marking this as a must attend event. I take this opportunity to congratulate the organizers and also thank them for such good organization.

• **Mr. P. Anil Kumar, Director Saan Engineers Pvt Ltd**

IPMMA organised a good exhibition last year and we are hopeful it would organise another good event this year. The PHARMA Pro&Pack Expo 2014 is likely to give us a good exposure to pharma industry by exploring new prospects and getting new clients and customers.

• **Mr. Vivek Rao, Mr. Ganesh Kumar, Enercon Asia Pacific Systems Pvt. Ltd.**



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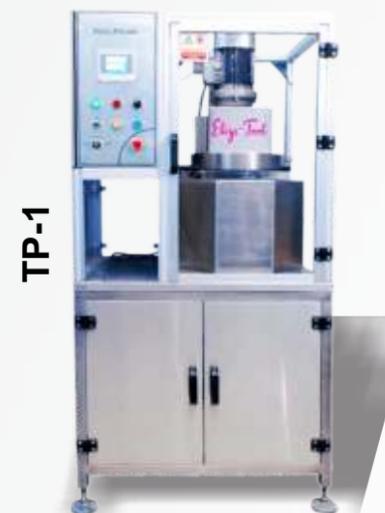


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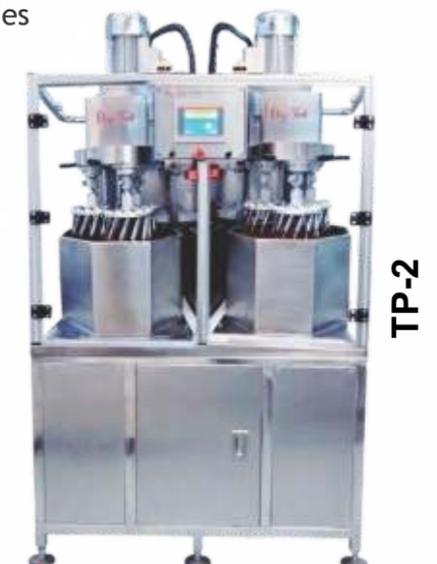
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PHARMA Pro&Pack Expo 2014 and iPHEX2014 are in fact complementing each other and fulfilling the complete spectrum of products and services of every single trade visitor from pharma industry for very meaningful and worthy visit at these twin shows. This activity is in the right direction to take the Indian pharma industry to new heights at the global level.

- **Dr. S.S. Lamba, Managing Director & President, Global Brands Unit Head, Global Procurement Strategy, EISAI India**

PHARMA Pro & Pack Expo 2013 Exhibition was very well done and was good as any international Show..! 2014 edition will also set new benchmarks.

- **Mr. Ross Townshend, Executive Director, RML Engineering Ltd. New Zealand**

We feel PHARMA Pro & Pack Expo 2013 will surely grow with its launch. We got good response and therefore we will be joining again in 2014.

- **Mr. Luke Song and Mr. Jason Kim, Sky Softgel Co. Ltd., Korea**

We are indeed very much happy with the capabilities of the show organizers. Also we are pleased with the participation and the good quality of visitors who visited our booth during the exhibition. We will be exhibiting with bigger exhibiting area in PHARMA Pro & Pack Expo 2014.

- **Mr. Pratap Teli, Director Pharmatech Process Equipments**

PHARMA Pro&Pack Expo 2014 is a very good start by the industry to identify and select the right product available in current times. Also in the long term, it will emerge as the only resource where selection of Brand India has to be made.

- **Dr. Vinayak Nayak, President (Technical) Alembic Pharmaceutical Works Ltd.**

Participating in PHARMA Pro & Pack Expo 2013 was our company's first exposure to the pharma segment at large. Our impression was that the show was very well organised, the quality of visitors was also very good. We did generate a good response from the show.

- **Mr. Deepak Kokane (Director), Mr. Dinesh Nambiar (MD), Repute Engineers Pvt. Ltd.**

The show had good focus on new technologies entering the pharma machinery segment. Also the exhibition was very good in terms of good quality visitors. The show was of international standards. We will be participating with a larger space in 2014.

- **Mr. K. Satyanarayanan, Director, Mechtex**

I anticipate a good quality show from the organisers in 2014 as the inaugural show in 2013 was very good and expectations of all exhibitors have heightened! I am sure that over a period of time, this show would surely establish itself as the benchmark show of the industry. With quality visitors visiting the show there was not too much of a rush. This also gave the exhibitors quality time to spend with prospective customers and clients. And this was mutually beneficial for both the exhibitors at large and the visitors. Surely we will be there in 2014..!

- **Mr. Gregory D'Souza, Director Anchor Mark Pvt. Ltd.**

We are already in India since the past five to six years but PHARMA Pro&Pack Expo 2013 offered us a very good platform to interact more with the industry. In India we have various customers and acceptance level of our machines is also good. Now PHARMA Pro&Pack Expo 2014 will also offer us a good chance to display our technologies and meet customers with ease.

- **Mr. Yuji Matsunaga**

We were happy with Pharma Pro&Pack Expo 2013 and found good and beneficial things that gave us a lot of encouragement. Though it was the first show, the response was very good in terms of the number of visitors. We are surely exhibiting in 2014 with larger space and the second show will be more successful.

- **Mr. Girish Vaidya, Director Progressive Instruments**

PHARMA Pro&Pack Expo 2013 was very profitable for us as most of all the top pharma companies attended the show. We have got top quality inquiries. Indian pharma market is for high quality products, the customers are smart and qualified and they know what they require. The Expo has remained quite useful, and we are surely exhibiting in 2014!"

- **Mr. Raul March, BOSSAR Packaging, S.A., Spain**



We may be new to India to launch 100 years old invention of Italy! But PHARMA Pro&Pack Expo 2013 remained very useful for us as the Exhibition was full of interested customers and no time wasters. It provided the right platform to us to open up the market in India for us..! We will be exhibiting in 2014..!"

- **Mr. Francesco Vase, Bram-Cor S.P.A., Italy**



The PHARMA Pro&Pack expo started off last year with good intentions. But my frank and honest suggestion to the organisers is that more efforts need to be put in to take the expo ahead. The aim of any exhibitor or participant in any show is to build his brand, have the maximum exposure and get the maximum number of business queries. It would be futile if these basic aims are not fulfilled. Also the show organisers should ensure that genuine trade and industry visitors should flock to the expo. There are ways and means to improve the performance. As this is an expo of IPMMA everybody from the industry supports it. But at the end of the day all business should get return on investment.

- **Mr. Jignesh J. Shah, SSPM Systems & Engineers**

PHARMA Pro&Pack Expo 2013 was a very good show. And this is the reason why we promised ourselves that we will be back in 2014. The visitors were limited at the show but the quality of the visitors was genuine and very high with several high profile visitors also coming in. I wish all the very best to PHARMA Pro&Pack Expo 2014.

- **Mr. Kenji Maeda of Freund Corporation, Japan**



**GPE EXPO PVT. LTD.**

PHARMA Pro&Pack Expo has emerged as a remarkable platform for all the exhibitors. The tempo could be felt right from the first inaugural show last year. It is indeed very encouraging to see such enthusiasm amongst all stakeholders. Such business meets also provide the ideal platform to all.

- **Mr. Sanjay Singh, Senior Vice President (Operations) Aurobindo Pharma Ltd.**

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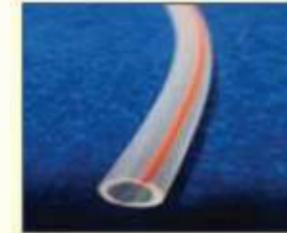
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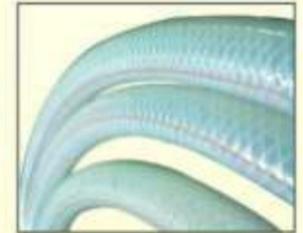
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May 21-22-23, 2014

# Growing pharma products demand in India augurs well for Indian pharma machinery manufacturers

Across the world, global pharma companies' are busy scouting and scanning for new growth and development openings. The good news for a country like India is that there seems to be a growing realization amongst the pharma majors of the world that perhaps the most promising of the opportunities, openings and prospects are to be found not in the developed nations of the world. But these opportunities will be found in the emerging economies of the world like India. With a plethora of strengths and strong points that India has to offer time is ripe for the Indian pharma machinery manufacturers also to rise to the occasion and leverage their inherent plus points. Interestingly pharma majors from across the world are showing high level of interest in India because of India's sustained economic growth, healthcare reforms and patent related legislation. With its burgeoning population, the second highest in the world after China, the demand for pharmaceutical products is being driven by low drug penetration, rising middle-classes, increasing disposable incomes, enhanced government and private spending on healthcare infrastructure and increasing medical insurance penetration.

Thanks to a series of reforms initiated in the early Nineties, India witnessed the unleashing of its economic potential. The reforms ushered in all round development. India has enjoyed more than a decade of strong growth and a rise in the spending power of its citizens. The reforms have seen the real average household income in India almost doubling over the past two decades. Thanks to the overall rub-on effect the almost three to four decades old Indian pharmaceutical machinery industry which has come up purely on its own efforts is a flourishing industry today. Currently the industry caters to various segments like Tableting, Powder Processing, Capsulation, R&D Equipment and Instrumentation, Material Handling, Coating, Bulk Drug Plant Installation and Packaging amongst others.

The development of the India pharma machinery segment has enabled the ever growing Indian pharma industry to procure machineries at a price almost one third or one fourth of the imported technology. Riding this demand curves both from within the country and from outside, the Indian pharma machinery industry is growing at a healthy rate. A basic advantage of using machineries made in the domestic market is that the foreign machines are five times more expensive than Indian machines, for the same products and in the same capacity. People from pharma industry of India and other parts of the world still look to the Indian market for those products because Indian pharmaceutical machineries are inexpensive and provide 'value for money.'

Over the years many home grown pharma machinery companies have fought against heavy odds striving on their own without any encouragement from any quarter to carve a unique niche for themselves not only in India but in different parts of the world. Stand alone Indian companies have a huge contribution in India and world over with their

brand of India machineries and their excellent after sales service. Companies like Cadmach, ACG, Alliance, Gansons, Rotofilt Industries, SS Industries, GMP Technical Solutions, Fabtech Technologies International Ltd and Nishotech to name a few have been successful in carving a unique niche for themselves in the cut throat global markets. Not only are the machines manufactured by these companies well accepted by Indian pharma majors but these machines go across geographies. Be it the Middle East or the African continent, South East Asia or the Americas, Indian companies are surely marching ahead.

Take the example of Cadmach. Over the last 45 years, companies like Cadmach have successfully delivered over 10,000 machines. Interestingly the Cadmach Tablet Press can be found in almost every country around the world. Another proof of the growing influence of the Indian pharma machinery manufacturing companies lies in the rise and rise of another Indian company ACG Worldwide which has been serving the pharmaceutical industry for five decades and is today the second largest manufacturer of empty hard capsules in the world. Today ACG comprises of 13 companies, including subsidiaries in China, USA, Indonesia, Brazil and Europe. ACG Worldwide has a presence in over 100 countries with its products and services, employing approximately 3,200 members that strive to provide world-class technology across multiple domains. The statistics are also impressive. Worldwide ACG has installed over 20,000 machines. The success of these companies is spurring other companies to follow suit. No wonder then global pharma majors look to India for their complete range of solutions.

Another shining example is that of the Gansons group with a focus on the manufacture and distribution of a wide range of process equipment. The group holds a leading position offering both standard and custom-manufactured equipment and support services for pharma and other industries. Companies like GMP Technical solutions have emerged as leading global players in providing integrated turnkey solutions for pharma and other industries. Indian companies now have the capabilities to offer customised leading edge solutions in design, detailed engineering, implementation and validation adhering to stringent norms of USFDA, EMEA & WHO. Indian companies are also making their mark in specialised fields. Ahmedabad based Rotofilt has carved its own place in solid-liquid separation technologies. No wonder it has more than 400 installations worldwide. Companies like Fabtech Technologies International Ltd have earned their name in providing complete turnkey solutions in hi-tech engineering and infrastructure offering innovative building and containment solutions. Today the company has footprints in 27 countries across the world.

Also Indian companies are realising the benefits of joint ventures with international names. The pursuit of a joint venture is from both the sides as the world over Brand India continues to take giant strides. Industry

observers say the pharmaceutical machinery sector of India has huge potential and as such many international companies have started opting for collaborations which in the long run would be beneficial to all the stakeholders. Indian pharma machinery manufacturers have started reaping rich rewards out of forging joint ventures with global leaders and international machinery manufacturers. Take the example of Parle Elizabeth Tools Pvt. Ltd, a leader in tablet compression tool segment. Parle Elizabeth Tools Pvt Ltd is an Indo-American joint venture company between Parle Global Technologies Pvt. Ltd. (India) & Elizabeth Carbide Die Co (USA). Today this company has grown into a vast multi-tier organization with exports to more than 36 countries around the globe with most reliable and affordable tablet compression tools. Also Parle Elizabeth has the largest infrastructure for the manufacturing of Tablet Compression Tools in Asia. Similarly Bectochem one of the leading manufacturers of pharmaceutical process equipment for solid and liquid dosage forms in India with 30 years of experience has tied up with Hect GmbH of Germany. The company offers a well established products range including granulation, coating, liquid and ointment manufacturing equipment and has grown to become the major supplier of Isolator Technology in India.

The increasing number of joint ventures between foreign and Indian machinery manufacturers is a testimony to the fact that the Indian machinery industry understands the stringent need of pharmaceutical industry and that it can produce international quality at affordable prices. An increasing number of foreign pharmaceutical-machine manufacturers also have recognized India's achievements and evolution in the industry. Indian machines are manufactured and used in accordance with international standards and do not hazard the inspection and approval of their facility. This is one of the many reasons that India has the most FDA - approved facilities in the world.

Also the growth in advancement and up-gradation of technology in machinery has been faster in India. With almost low technology offerings in the initial stage, the Indian machinery today is considered as one that can offer value added engineering with integration of new technologies. Various international companies found it cost effective to work with Indian partners in the form of collaborative ventures.

Because of the advantages offered by India, international players are also now flocking to India to set up their manufacturing base here. This in turn further strengthens the goodwill of Brand India at the global level. Another major benefit of this is that many Indian professionals find good employment in these companies. In the long term many of these employees also become entrepreneurs.

German giant Glatt has also established a manufacturing base in India at Pune in Maharashtra. The production site is for manufacture of process equipment and product handling equipment such as IBCs and vessels along with service for all Glatt process equipments. Another global giant, the Finland headquartered Elomatic company has also set up a base in India at Pune. Elomatic, India, is a turnkey engineering & consultancy company dedicated to the pharmaceutical and biotechnology industry in geographies spanning from Middle East, Africa and Asia Pacific with a large client base in South East Asia.

Truly the Indian pharma machinery players are proving to be the 'growth pill' of not just Indian pharma companies but also their foreign counterparts. As the third largest medicine manufacturer in the world, the Indian pharma industry is known for cost effective generic products at international quality. To achieve this milestone many factors have worked hand in hand with Indian pharma industry and pharma machinery manufacturers are prominent among them. Today Brand India pharma machines are no longer dear to just Indian pharma companies. Many pharma companies across the globe produce and manufacture much needed medicines to treat the humanity at large using these Made-in-India machines. **PPP**

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A Perspective Report:

# Indian Pharma Machinery Manufacturing Sector: Overview, Facts & Manufacturing

## Pharmaceutical Industry – India at a Glance

The Indian pharmaceuticals market has characteristics that make it unique. While branded generics dominate, making up for 70 to 80 per cent of the retail market, local players have enjoyed a dominant position driven by formulation development capabilities and early investments. Price levels are low, driven by intense competition. While India ranks tenth globally in terms of value, it is ranked third in volumes. Interestingly these characteristics present their own opportunities and challenges.

The Indian pharmaceutical industry accounts for about 1.4 per cent of the global pharma industry in value terms. The industry has over 60,000 generic brands across 60 therapeutic categories and manufactures more than 500 different active pharmaceutical ingredients (APIs). The Indian pharma sector revenues are expected to rise at a compounded annual growth rate (CAGR) of 17.8 per cent during 2008-16 to reach US\$ 36

billion. The Ministry of Commerce targets to increase pharmaceutical export to US\$ 25 billion by 2016. Indian drugs are exported to more than 200 countries in the world, with the US as the key market.

India's low cost of production and research and development (R&D) boosts efficiency of pharma companies. The cost of production in the country is approximately 60 per cent lower than that of the US and almost half of that of Europe.

The Government of India (GOI) unveiled 'Pharma Vision 2020' aimed at making India a global leader in end-to-end drug manufacturing. The government has also allowed zero duty for technology upgrades in the pharmaceutical sector through the Export Promotion Capital Goods (EPCG) Scheme. India is among the leaders in the clinical trial market. Due to a genetically diverse population and availability of skilled doctors, the country has the potential to attract huge investments in its clinical trial market.

## Pharmaceutical Industry - India at a Glance

Leading pharma producer	• The country's pharma industry accounts for about 1.4 per cent of the global pharma industry in value terms and 10 per cent in volume terms
Among fastest growing industries	• The Indian pharmaceutical industry revenue is expected to expand at a CAGR of 17.8 per cent during 2008-16 and reach USD36 billion
Rapidly growing healthcare sector	• The healthcare sector in India is expected to reach USD100 billion by 2015 from the current USD65 billion
Growing generics market	• The generics market is expected to grow to USD26.1 billion by 2016 from current USD11.3 billion in 2011; India's generics market has immense potential for growth
Ranked 5 <sup>th</sup> in terms of attracting FDI	• Attracted 5 per cent of the total FDI into India from April 2000 to March 2013 • Cumulative FDI inflows worth USD10.3 billion from April 2000 to March 2013

Source: India Biz, PharmaBiz, Frost and Sullivan report on Indian Pharmaceutical Market, Aranca Research  
Note: API - Active Pharmaceutical Ingredient, USFDA - United States Food and Drug Administration, CAGR - Compound Annual Growth Rate



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- Injectable Powder Filling,
- Dry Syrup Powder Filling,
- Capping for Vials & Bottles,
- Wet Glue Labelling,
- Sticker (Self Adhesive) Labelling,
- Contact & Inkjet Coding,
- Vision/Camera Systems,
- Leaflet Pasting / Fixing,
- Canister / Silicagel Inserting,
- Tablet Bottle Packing Line,
- Liquid Vial / Bottle Filling Line
- Injectable Powder Filling Line
- Dry Syrup Powder Filling Line,
- Label Roll Counting & Winding,
- Conveyor & Turn Tables.

## Labelling Machines for

- Wrap Round Labelling
- Body Labelling
- Front & Back Labelling
- Carton Labelling
- Ampoule Labelling
- Top & Bottom Labelling
- Security Labelling
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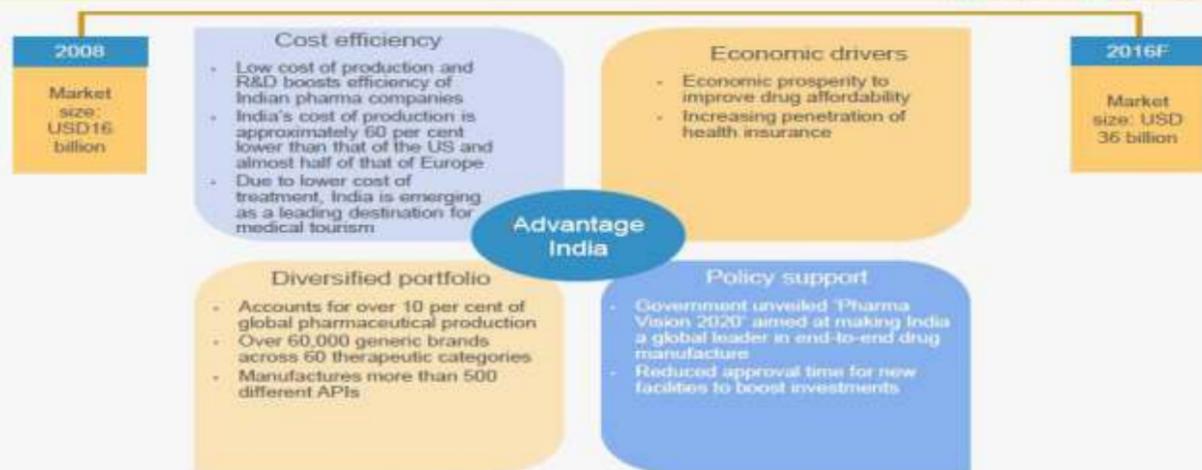
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Pharmaceutical Industry Overview

ADVANTAGE INDIA



Source: Pharmaceuticals Exports Promotion Council of India, BMI, Aranca Research, 2016 revenue forecasts are estimates of BMI, Notes: BMI - Business Monitor International, API - Active Pharmaceutical Ingredients, F - Forecast

Pharmaceutical Industry Overview

EVOLUTION OF INDIAN PHARMACEUTICAL SECTOR



Note: KAM - Key Account Management, CSO - Contract Sales Organisation

Pharmaceutical Industry Overview

API IS THE LARGEST SEGMENT OF THE INDIAN PHARMACEUTICALS INDUSTRY



Source: BMI, Datamonitor, Various Industry Estimates, ICRA Report Estimates, Aranca Research Note: OTC - Over The Counter

Packaging Products For Health Care

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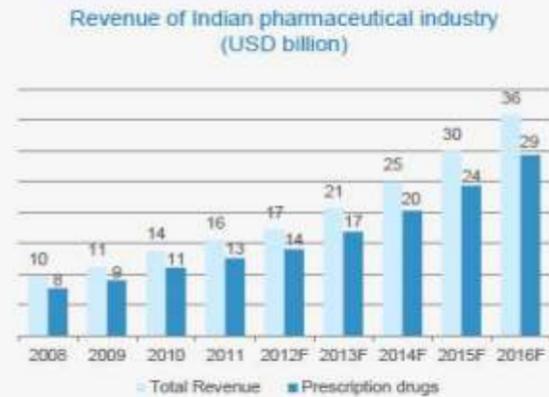
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## Indian Pharmaceutical – Revenue Trends

### INDIAN PHARMA SECTOR REVENUES TRENDING NORTH

- ★ The Indian pharmaceuticals industry revenues are expected to rise at a CAGR of 17.8 per cent to USD36 billion during 2008–16
- ★ During the same period, the revenues from prescription drugs are expected to expand at a CAGR of 18.2 per cent to USD29 billion



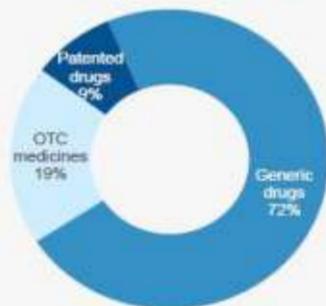
Source: Business Monitor International, Aranca Research  
Note: F - Forecast, CAGR - Compound Annual Growth Rate

## Indian Pharmaceutical – Revenue Trends

### GENERIC DRUGS FORM THE LARGEST SEGMENT OF INDIAN PHARMA MARKET

- ★ With 72 per cent of market share (in terms of revenues), generic drugs form the largest segment of the Indian pharmaceutical sector. In 2011, sales of generic drugs stood at USD11.3 billion
- ★ Over the Counter (OTC) medicines and patented drugs constitute 19 and 9 per cent, respectively, of total market revenues

Revenue share of Indian pharmaceutical sub-segments in 2011 (%)



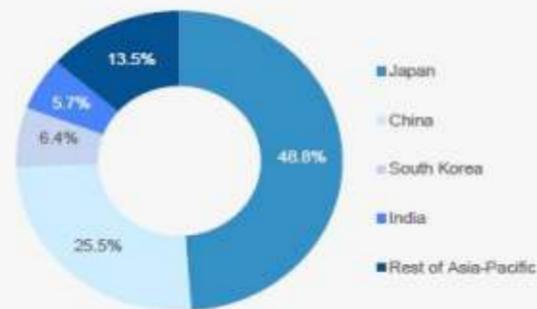
Source: Business Monitor International, Aranca Research  
Note: F - Forecast

## Indian Pharmaceutical – Impression on Global Market

### INDIA IS FOURTH LARGEST PLAYER IN ASIA-PACIFIC BY VALUE

- ★ With 5.7 per cent of market share, India ranks fourth in terms of total market share in Asia-Pacific
- ★ In terms of Pharmaceutical Risk/Reward ratings, India stood 10<sup>th</sup> in Asia Pacific

Market share by value in Asia-Pacific (2011)



Source: Market Line, Aranca Research

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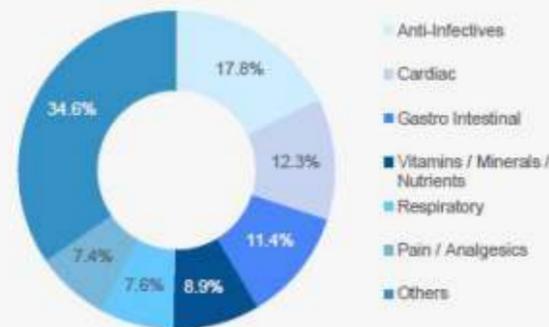
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## Indian Pharmaceutical – Revenue Trends

### ANTI-INFECTIVE DRUGS LEAD THE PHARMA MARKET

- ★ Anti-infective drugs command the largest share (17.8 per cent) in the Indian pharma market
- ★ The cardiovascular segment represents 11.4 per cent of the market share; its contribution is likely to rise due to the growing number of cardiac cases in India
- ★ Top five segments contributed nearly 58 per cent of the total drugs consumption

Indian pharmaceutical market segments by value (MAT March 2013)



Source: All Indian Origin Chemists & Distributors, Department of Pharmaceuticals, Planning Commission Report, Aranca Research  
Note: MAT - Moving Annual Total

No wonder then India is one of the fastest-growing pharmaceutical markets in the world and has established itself as a global manufacturing and research hub. A large raw material base and the availability of a skilled workforce give the industry a definite competitive advantage.

#### Highlights

The Indian pharmaceutical industry was estimated to be worth US\$ 23 billion in 2010-11 and is expected to touch US\$ 55 billion by 2016-17. Globally, India ranks third in terms of volume of production and fourteenth largest by value. The domestic market is likely to grow from US\$ 13 billion in 2010-2011 to US\$ 25 billion

by 2016-17. The domestic pharma sector is witnessing strong growth due to higher penetration in tier-II and tier-III cities and greater focus on the largely-untapped rural market.

#### Key Markets and Exports

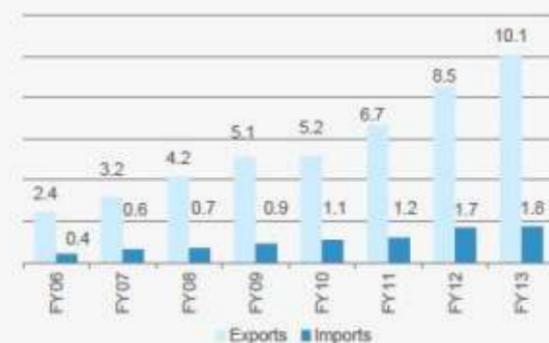
India exports to more than 200 countries; its share of exports is expected to grow manifold. Pharmaceutical exports grew from US\$ 5.1 billion in 2008-09 to US\$ 10.1 billion in 2012-13, at a rate of 16.3 per cent. The US is India's largest importer. The exports to the US grew at a rate of around 26.1 per cent between 2006-07 and 2012-13. The export of bulk drugs continue to grow to regulated markets and is supported by India's existing foothold in semi-regulated market.

## Pharmaceutical Exports from India

### PHARMA EXPORT TO CONTINUE WITNESSING HIGH GROWTH

- ★ Indian pharma companies are capitalising on export opportunities in regulated and semi-regulated markets
- ★ The Ministry of Commerce targets to export USD25 billion worth of pharmaceuticals in 2016. Indian drugs are exported to more than 200 countries in the world, with the US as the key market
- ★ India is the largest provider of generic medicines across the globe; India's generic drugs account for 20 per cent of global generic drug exports (in terms of volumes)
- ★ In terms of value, pharmaceutical products exports have increased at a CAGR of 26.1 per cent to USD10.1 billion during FY06-13
- ★ During the same period, pharmaceutical products imports rose at a CAGR of 25.4 per cent to USD1.8 billion

Trade data of Indian pharma industry (USD billion)



Source: Department of Commerce, India, Planning Commission Report, India Business News, BMI, Aranca Research  
Note: CAGR - Compound Annual Growth Rate; CAGR is mentioned in INR terms

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#### AIR VELOCITY TRANSMITTER – AVT



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#### DPI Differential Pressure Indicator



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### Indian Pharmaceutical Market & Major Players

#### COMPETITIVE MARKET; TOP FOUR FIRMS ACCOUNT FOR OVER 20 PER CENT MARKET SHARE

- ★ Cipla has the largest share (5.0 per cent) in the Indian pharma market, with MAT sales of USD649.6 million during March 2013
- ★ Sun Pharma posted the highest growth in revenue (20 per cent) among major players during the same period
- ★ GlaxoSmithKline, with a revenue base of USD596.2 million for March 2013 MAT sales, ranks third in the market
- ★ Ranbaxy, with a revenue base of USD542.2 million for March 2013 MAT sales, ranks fourth in the market
- ★ While these top four companies have garnered 20 per cent market share, top 10 companies account for nearly 39 per cent of the market share



### Notable Trends in Indian Pharmaceutical Industry

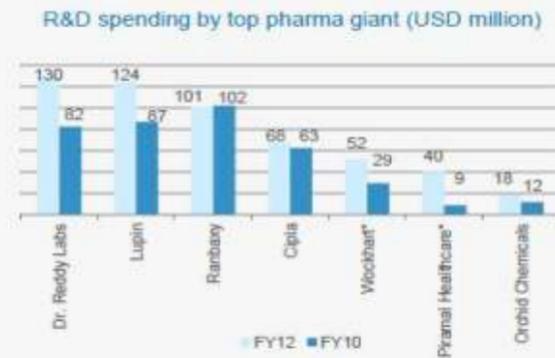
- PPP in R&D**
  - The Indian Government plans to involve the private sector in R&D mainly for sectors like vaccines, drugs and pharmaceuticals, super computing, solar energy and electronic hardware
  - The government has invested USD1.1 in the billion Public-Private Partnership fund to support R&D in India
- Patents Act**
  - Amendments to the Patents Act, 1970, to make it TRIPS compliant
  - Increased incentives to domestic firms to conduct R&D
  - Increased likelihood of technology transfer from developed nations
- Product Patents**
  - The introduction of product patents in India in 2005 has boosted the discovery of new drugs
  - India has reiterated its commitment to IP protection following the introduction of product patents

Source: Aranca Research

### Indian Pharmaceutical Market & Major Players

#### PHARMA GIANTS RAISE THEIR R&D SPENDING

- ★ By 2015, the Indian healthcare sector is expected to reach USD100 billion from the current USD65 billion
- ★ This would help drive R&D growth in India; the average R&D expenditure by Indian pharma companies is close to 2 per cent of total revenues
- ★ In FY12, total R&D spending by top seven pharma companies was USD533 million



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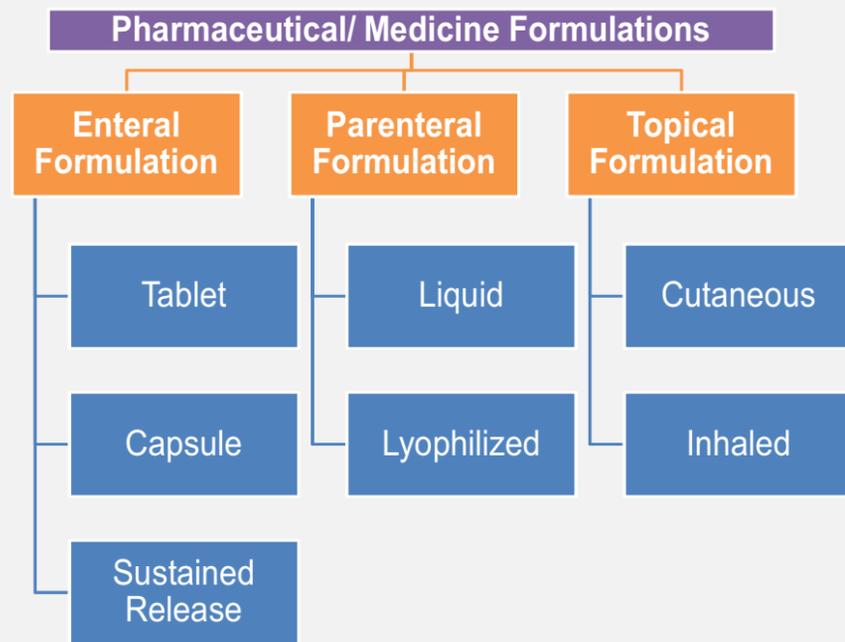
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## Manufacturing Formulations – Pharmaceutical Industry



### Pharmaceutical Companies & Machinery Importance

In order to cater to the huge demanding global & domestic market, the pharmaceutical industry needs to have all kind of machineries to manufacture medicines from various formulations.

The industry today adheres to all international norms and regulations due to which it has several USFDA, UK MCC, WHO GMP, EU GMP etc approved facilities.

The Indian pharmaceutical industry is now being acknowledged as a global outsourcing hub rather than merely a generic drugs market. It is possible due to its low-cost manufacturing, high-quality research & manufacturing facilities and highly skilled personnel.

Indian pharmaceutical machinery manufacturers today have ventured into the field of technology transfers and kept pace with the changing technology to increase levels of automation & International standards.

### Pharmaceutical Machinery Industry - History & Overview

In early 60's and 70's the pharmaceutical industry mostly imported machines from Europe for their processing and packaging needs with big names like Aeromatic, Glatt, Fette, Manesty, Kilian, Hofliger & Karg, Hassia, Sparkler, Stunk, Zanasi etc. who are all very well known for the technology in their respective fields.

By the mid 70's the country went through a severe shortage of foreign exchange and therefore the Indian government introduced very high import duties and restrictive import licensing policies. This forced all the pharmaceutical companies to encourage some **Indian engineering enterprises to manufacture machines locally**. This was perhaps the only route for the pharmaceutical industry to **enhance production and cater to the growing demands of the domestic market**.

This proved a big opportunity for the Indian small scale engineering companies to provide machineries to the pharmaceutical industry and thus a scenario was created whereby 100's of machinery manufacturers mushroomed to cater to the needs of 1,000's of pharmaceutical companies over a period of time.

Indian engineering entrepreneurs made Indian pharmaceutical manufacturing cost much lower than even Bangladesh not to talk of Europe and USA and this was made possible due the huge savings on

capital investment of plant and machinery besides cheap technical manpower costs.

Looking at the capabilities of Indian engineering companies many international machine manufactures have joined hands with some Indian companies which has helped the Indian pharmaceutical industry to procure further improved Indian made machinery at a price almost one fourth or one third the imported technology.

India is the fourth largest manufacturer of medicines in the world, although in terms of turnover the contribution of the Indian Pharmaceutical Industry is less than 2% of the global total, it is a clear indication that the price of medicines in India are the lowest in the world. The manufacturing facilities in India are being upgraded to the standards of the regulated markets.

India has the highest number of FDA approved facilities outside the USA. An entire range of manufacturing facilities is being catered by the **Indian pharmaceutical Machinery Industry** including Processing /Tablet / Capsule / Liquids / Injectables / Ointments / Dry Syrups) Packaging (Filling / Sealing / Labeling / Cartoning/ Material Handling, R&D, Equipment & Instrumentation and API / Bulk Drug Plant Machineries, etc.

### Strengths & Advantages – Indian Pharmaceutical Machine Industry

Value for Money: Indian machineries are extremely competitive and have a good price: performance ratio.

Indian pharma machinery manufacturers have not yet got into the culture of strictly adhering to contracts; thereby give better after sales service, going beyond the Annual Maintenance Contracts (AMCs).

Very Flexible for customers in terms of deliveries, contractual terms, etc.

As far as meeting the needs of the pharma industry is concerned, we can say the Indian machinery manufacturers are keeping pace with the rapidly changing technology in the international scene & adhering to all kinds of International regulatory.

Growth in the advancement and up gradation of technology in machinery has been fast in India. With almost low technology offerings in the initial stage, the Indian pharma machinery industry today is

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considered as one that can offer value-added engineering with integration of new technologies.

India has an advantage in terms of its offerings like its design outsourcing services to high-end customization after-sales support process outsourcing and validation & documentation services.

The implementation of the revised Schedule M, which insists that the quality of manufacturing machines should follow international good manufacturing practices (GMPs) rolls out yet more standardized machines for pharma industry.

#### Weakness/Hindrances – Indian Pharmaceutical Machine Industry

While it may have its strengths and plus points, the Indian pharma machinery sector is also plagued by several weaknesses which it needs to sort out. Amongst the weak points are very low investments in R&D by the machinery manufacturers. Also most of the manufacturers do not have the approach and attitude to work in tandem with each other, making this as a fragmented industry comprising small-scale manufacturers. Despite having ability to cultivate knowledge & trainings, the unanimity is still missing within the industry. Also the machinery manufacturers face difficulty to attract international manufacturers for high value, high tech products to have joint ventures and also for technology transfers. The need of the hour is to improve the brand image of products in general and that of the Indian pharma machinery industry in particular. Also the Indian machinery manufacturers have their limitations as far as their 'reach ability' to the global market is concerned. This has to be overcome to showcase and promote Indian pharma machinery products.

#### Opportunities - Indian Pharmaceutical Machinery Industry

The global pharma industry is currently witnessing rapid expansion with advances in manufacturing processes, technology innovation and integration, which are the main driving forces behind the growth of the pharma packaging machinery industry, globally including major share for India. The increasing demand for biologics will boost the demand for innovative product packaging solutions in the global pharma packaging market. With more than \$120 billion worth of drugs going off-patent in the next five years, generic drug manufacturers will emerge as a major segment driving demand for pharma machineries venues in India. Increasing demand for drug delivery devices and blister packaging will also boost the growth of pharma machinery industry. The global market for Nano-enabled packaging for blisters was \$941 million in 2008 and is expected to grow to \$2.10 billion by 2014; thereby opening huge demand in Indian market. Many MNC's in this field are setting up their manufacturing bases in India and this will further revolutionize the pharma machinery market in India. Increasing availability of better quality technology and new packaging machines in the country are some of the reasons for this rapid growth. The Indian pharmaceuticals market will grow to US \$55 billion by 2020, not just in terms of scale but also volumes. This, in turn, will push pharmaceutical machinery manufacturers beyond their limits to innovate, offer advanced technologies, and yet maintain a competitive advantage (over European manufacturers) in terms of cost. The Indian pharmaceuticals market will grow to US \$55 billion by 2020, not just in terms of scale but also volumes. This, in turn, will push pharmaceutical machinery manufacturers beyond their limits to innovate, offer advanced technologies, and yet maintain a competitive advantage (over European manufacturers) in terms of cost. According to recent industry reports by Mckinsey, while there are around 270 large R&D-based pharmaceutical companies in India – including multinationals, government-owned and private companies – there are also around 5,600 small licensed generics manufacturers.

#### Threats – Indian Pharmaceutical Machinery Industry

Indian pharma machinery manufacturers will have to wake-up to the fact that other low-cost countries such as China and Israel are indeed affecting outsourcing demand for Indian pharmaceutical products. Also playing an important role is the entry of foreign players (well equipped technology-based products) into the Indian market. Last but not the least; the Government is also expanding the umbrella of the Drugs Price Control Order (DPCO).

#### Indian Pharmaceutical Machinery Industry - Market Analysis &

#### Proposal

As per a McKinsey report, Indian pharma packaging is expected to reach \$50 billion by 2015. Nano technology, the global market for Nano-enabled packaging for blisters was \$941 million in 2008 and is expected to grow to \$2.10 billion by 2014. Indian pharma packaging industry which is worth about USD 23 billion is growing at a rate of 15% annually. Sophisticated drug products, stringent government requirements and more prominent players with new emerging markets have increased the demand for pharmaceutical packaging material. According to a report by the Freedomia Group, world pharmaceutical packaging demand will increase 6.4 percent annually to USD 90 billion in 2017.

Based on the operation of extensive and diverse drug-producing industries, Western Europe, the US, and Japan will account for nearly 60 percent of this amount. Brazil, Mexico, and Turkey will also evolve into fast-growing pharmaceutical packaging product markets as drug-producing sectors are upgraded and diversified, especially in the area of generic drugs.

Global demand for primary pharmaceutical containers will increase 6.6 percent annually to over USD 57 billion in 2017. The fastest growth is anticipated for prefillable syringes, which will gain applications as advances in biotechnology lead to the introduction of new parenteral therapies. The same trend will also create above average growth in world demand for parenteral vials and ampoules. In spite of increasing competition from alternative containers, plastic bottles will remain the most widely used package globally for oral drugs distributed in bulk and prescription dose volumes to retail and mail order pharmacies. Plastic bottles will also continue to dominate applications as containers for OTC medicines sold in tablet and capsule quantities of 50 or more. Blister packaging will comprise the second-largest selling group of primary pharmaceutical containers and will generate above average growth in demand based on adaptability to unit dose and clinical trial formats with expanded label content, high visibility, and built-in track and trace features.

India and China will record the fastest growth in drug packaging demand due to rapidly expanding pharmaceutical production capabilities, burgeoning drug exports, and the phasing-in of extensive medicine quality regulations. Indian Pharma Machinery market expect it to be around Rs. 1,500 crore, includes capital equipments like processing and packaging machinery, utilities, equipments and other ancillary products. The pharma machinery industry growing at an annual rate of 10 per cent and contributes to about 3 per cent of the overall machinery sector of India. About 5 per cent of the total domestic pharmaceutical machinery requirement is imported; where as 25 per cent of our total output is exported. Still a respective percentage of Pharmaceutical companies are importing from foreign countries to fulfill their production requirements. This results in deprived stage of much capable & knowledgeable pharma machinery engineering companies.

As of now Indian pharma machinery exports are restricted to 80-100 countries that too with much exploration on foreign grounds. The domestic packaging machinery industry is finding it a challenge to meet the requirements of the export oriented segment since the industry, barring few companies, is still not geared up to a large extent. Therefore, pharma industry has to import packaging machines from Europe, USA and Korea.

Trained manpower is not available and therefore the machines need to be easy-to-operate. Innovation in packaging is the need of the hour. Packaging not only requires fulfilling its functional role but at the same time should also be patient friendly. Our government's role is no less in providing support to our pharma machinery sector over the years. But, the manufacturers need help from various organisations to provide a support system to this much matured & crucial engineering industry. The Engineering and Export Promotion Council (EEPC) and Government of India can together help our small-to medium-scale manufacturers in promoting their products in the world market. All Pharma machinery companies are still considered under MSME sector & would seek much graded recognition to enhance on R&D facility, manpower training & technological innovations.

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With foreign pharmaceutical machine manufacturers keen to go in for joint ventures with Indian pharmaceutical machine manufacturers, EEPC and the government can help Indian manufacturers; guide them by showing the proper route to go in these foreign tie-ups.

Regions like Latin America and Eastern Europe are places with great potential. Indian manufacturers aspire to get a hold in markets of these regions and support at the grass roots level here can also help in creating an environment which could be described as conducive. This would be of great help for these aspiring manufacturers to make an entry into these regions. Many of the Indian pharma machinery products are currently on the negative list in neighbouring countries like Pakistan which is a great loss in terms of growth for our manufacturers - both in the pharma industry as well as the engineering sector. Government of India & Ministry of External Affairs should help the industry by removing the barriers and bringing pharma machinery products on the positive list which will be a great boost for Indian machinery exports. Specialised engineering courses should be included in the pharmacy curriculum which will provide aspiring students a clear scenario of the Indian pharma machinery engineering sector and encourage them to step forward and impart their valuable knowledge to the pharmaceutical industry.

Also the Ministry of Commercial Affairs and EEPC could extend due encouragement to pharma machinery manufacturers by including them in various delegations and bodies, giving them a platform for exchange of views, which would definitely help them to grow further. Also EEPC & Ministry of Commercial Affairs should organise more trade promotion activities in India between foreign pharmaceutical companies & Indian pharma machinery manufacturers. These kinds of activities will enable good success rate for exhibitions, seminars & buyer-seller meets. The Indian pharmaceutical machinery should be catered under incubation activities through various incubation centers. Also the government should provide aid to uplift the R&D capability of the Indian pharma machinery manufacturer. This would go a long way in providing the much needed muscle to the Indian players to match up international standards. Ministry of External Affairs & EEPC could also help the industry by drafting various policies to ease export procedures so that export of engineering machineries to foreign countries is done with much ease. To make machines made in India truly global, it is essential to use internationally accepted machine components like motor, gearbox, electrical fitting etc. The Indian pharma machinery manufacturers therefore need government support like Duty Entitlement Pass Book (DEPB) scheme, which so far is not there with the Indian pharma machinery industry.

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# Growth of tableting sector is assured for many years to come

**Mr. P H Vachhrajani**

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If I were to give you a bird's eye view of this specialised sector we deal in then I would say that tablet compression is indeed a very specialised sector. It is not only just compression of powder to tablet but also maintaining weight precision in terms of optimised dosing. Hence equipments must be of a high technology, high quality and the most important is the capability to give right precision in terms of output. Simple it may sound but striking and maintaining the right balance between the various features is of paramount importance. The difficulty in maintaining the balance arises when features like high speed are added. The stubborn nature of physical characteristics of granules while compressing has been noticed many a times.

Fortunately for all of us, the tableting process market has seen good development in India. It would not be an exaggeration on my part to state that the past two decades have seen a rapid and tremendous rise in the tableting process sector in India. This has helped India to gain a pole position as one of the leading and major players in the solid dosage sector in the global markets.

Also helping India are several plus points like having an ample pool of skilled manpower. Also the country can now boast of a huge bank of technicians and pharmacists. Helping along is a healthy economy and a growing industrial sector and last but not the least the ever increasing population of India! According to me both the demand and supply are evenly matched as both are increasing at a proportionate pace.

Growth of the tableting sector is assured as nearly 85% of oral dose medication is taken in the form of tablets. The role of syrup and capsule is still limited to 15%. Therefore not only within India but across the world tablets holds maximum chunk of oral solid dose prescription. The sector may perhaps get saturated due to the increasing influx of players but that perhaps could take a long time to come.

But here I need to underline the importance of the growing talk in the industry pertaining to how equipment choices would be affected should solid dosage form technologies change in response to the unprecedented shifts in drug discovery such as genomics. There are many things which are responsible in shift of technology. It may be because of new requirement or new technology of medication which requires different equipments or some time same or existing requirement can be fulfilled by some new equipment. But this depends on the situations and conditions prevalent -- the form of medication such as liquid (syrup, injection), solid (tablet, granule & dry syrup).

Let us travel back in time. Let us go back by two to three decades. At that time polio vaccines were injected into the body using an injection with syringe. Now the same has become oral drops. So there is no need of ampoule or vile line for polio vaccines. Obvious fallout of this was that equipment selection changed.

Some antipyretic drugs are given in form of tablet (adult dose) - syrup (pediatric dose) - injection (both). Anti-malarial drug chloroquine phosphate is an example. Hence in such conditions the requirement of equipments will be different to serve such products respectively -- tablet compression line (solid dose), liquid line (bottle) and injectable line (ampoule or vile). The only thing I can say is that genomics is in a very nascent budding phase at present. It just cannot become a viable substitute or an alternative to all existing medication technology. Genomics has yet to go a long way. And if it reaches to that level and to that extent of medical technology which can replace all existing technologies, then certainly a new sector of different equipment will emerge. And mind you this evolution will be similar to what happened in the sound, audio and music industry -- remember the case of the gramophone, the magnetic tape, the compact cassette, the CDs, DVDs & pen drives and now the micro SDs!!

Now let me focus on the role of granulation and how the right granulation helps in getting the optimum results in the tableting process. The role of granulation is as important as the role of cement and concrete mixing while any structure is being constructed. Here the end product is the tablet. The optimum quality of end product depends upon the quality of process through which the ingredients are passed prior to being produced as the final end product. Granulation is responsible for proper compressibility, proper flowability, proper binding to overcome friability, desired hardness of tablet, desired speed of output till the proper ejection of the tablet. Dry granulation and wet granulation are basically the two types of technologies widely used by the industry at large. The granulation properties that need to be verified before compression are proper compressibility, proper flowability and proper binding to overcome friability and proper lubrication that helps tablet ejection. The granules should be uniform and fine powder should be restricted to 20-25%. Apart from this, the nature of granule with respect to room temperature and moisture or exposure should also be verified and kept in consideration while going for tablet making.

However, there is talk revolving around studies which say should next generation drugs be predominantly protein or peptide based, tablets may no longer be the dominant format given the difficulty of dosing such moieties orally. But based on my experience I can very well say that this is just a myth. Even the protein or peptide based drugs will be given in dry powder, tablet, syrup, capsule or any such form. At present chemical drugs are given and in future if these chemical drugs are replaced by bio drugs such as protein, peptide etc the same equipments will be used with some modifications here and there. The most important thing is the form that is convenient enough to administer to a particular patient. Yes some replacement may be possible because we don't know what technology for medication will be practiced in future to cure a particular disease. Even at present if we take example of oncology then in some cancer treatments, oral tablets (oncology drug) are also administrated along



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with other therapies. Some cancers are treated using chemotherapy. In some cancers, chemotherapies have no effect so radiation therapy is done. So depending upon the type and the nature of cancer, there are different forms of target therapies which determine the administration -- be it oral (tablet / capsule), IV / IM / IS Injectable (Chemo / Isotopes) or Radiation (Gamma / Laser). But this does not mean that role of any particular form of therapy is over.

#### COATING

Also there are two main types of coatings applied for tablets. First is film coating that is widely practiced using auto coaters or film coaters and traditional sugar coating using traditional coating pan or auto coaters. There are several crucial parameters used in coating a tablet. The coated film thickness, film flexibility and film dissolubility are crucial parameters. The role of coating is very important to prevent the tablet to suffer from friability, edge wearing out and direct exposure to moisture. There are solutions on offer for drugs with poor wetting and slow dissolution properties. For tablets made of such granules it is recommended to reduce the hardness, if tablet shape remains stable. If tablet shape is not stable or friability problem happens then making the tablet having water dispersible or effervescent nature is a proven and time tested solution. Also the industry has a small volume batch-centered approach both for preliminary blending or granulation and subsequent film coating as the uniformity of blending can be better maintained in case of small volume



batches. Also it is easier to conclude the analysis of samples from small volume batches rather than bigger ones. Secondly it is easier to carry out corrections if required in smaller batches than in a bigger batch.

I also agree that tablet development still requires a degree of skill and art, primarily because of the uncertainty of the physics within the material under compaction that thwarts the simple correlation of raw-material properties with finished tablet properties, even for the simplest direct compression processes. I would put it this way that the basic requirements are skill and experience rather than skill and art. Skill and experience helps to optimize the tablet making process in terms of tablet quality, waste control, time saving and cost saving. Also wet and dry granulation methods add further complexity to the manufacturing process but as we know granulation phases are always prior to tablet making, so skill & experience are also important to handle the complexity of wet or dry granulation.

So tablets are still the solid dosage form of choice because of patient compliance, high-precision dosing, and manufacturing efficiency because if the granule is compressible then in solid dosage form tablet is always the first choice because production is possible at high speed and at high precision. Also for combination regimes tablet can be an ideal choice keeping patients' compliance in terms of ease of adherence. Because a single tablet may have options such as two layers and three layer tablets or tablet in tables with different release timings. Moreover carrying and keeping the tablets is easier than other dosage forms such as powder, syrup and even capsules. In India there is an increasing awareness about capsule shell where gelatin is used. This is making the pure vegetarian community to look for another alternative as we all know that animal bones are main raw material for gelatin used for capsule shells.

#### MACHINERY

Also modern rotary tablet machines look more sophisticated and have more instrumentation today, but the basic technology has not undergone any significant changes in past several decades. This is because tableting is actually compression of the powder. And we know that compression means reduction of volume. This principal is being used in die punch of a tablet press -- the optimized technique of tableting so far and also the most basic or fundamental technology. So for growing number of supportive functions a number of new technological means have joined in but the fundamental technology is the same. Here I can give you a similar example of inter-combustion engines for all vehicles in which despite huge technological enhancement in the last 100 odd years, the basic or fundamental technology is the same -- the principle of piston & cylinder!

We also have to learn to deal with drugs that resist compression into dense compacts, owing to amorphous nature and low density character. To deal with low density character we will have to give priority to compaction density. For that two methods or both together are practiced. One is compaction of fine or low density powder using either slugging method or roller compaction method. In slugging method, initially fine powder is turned to pre-tablets or slug tablets using a tablet compression press dedicated for slugging purpose usually featured with capability of big tablet making high compaction force facility with help of a granulator and appropriated screening through those compacted tablets are again turned to higher bulk density granules. Now these granules are ready for tableting. The second method is change in formulation of ingredients other than active ingredients. Hence the placebo is changed to increase the bulk density to the extent suitable for tablet compression.

There is also talk about the use of PAT (Process Analytical Technologies) hailed as another approach to improving manufacturing processes such as tableting. PAT is a very important concept and we can describe it as a purely technical avatar of Total Quality Control (TQM) in terms of process.

As far as the role of particle detection in tableting process is concerned I can say that particle detection technique is used for detecting metallic contamination in a tablet. It is a kind of check system and statutory requirement to maintain the quality of a tablet in terms of ensuring that no foreign metallic particle or unwanted metallic particle has encroached upon the tablet mass. At present on pharmaceutical Eddy current based metal detection systems are being used but in future radio sensing systems may be introduced. They are still in evolution phase.

Also there are phases and applications of Inspection Machines in tableting process in pharma industry. There are various inspection machines being used in tableting process. Some are before tableting and some are after tableting. For example before tableting process, various desolation testers, spectroscopes to ensure the uniform blending, and titration equipments are used for ensuring optimal desired quantity of active ingredients.

Post tableting equipments used are metal detectors, check weights, inspection belts and camera based systems are used. **PPP**  
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Design Elements

# Drive Technology - A Rethought XTS – eXtended Transport System

**Mr. Ajey Phatak**

Marketing Manager  
Beckhoff Automation Pvt Ltd

## The dynamic linear motor that drives in a circle

The new XTS drive system (eXtended Transport System) offers completely new degrees of freedom for mechanical engineering. It combines the benefits of tried and tested rotational and linear drive systems and represents a drive system that extends the conventional linear motor principle: XTS is a linear motor that moves in a circle. The motor is completely integrated together with power electronics and displacement measurement into one assembly. One or more wireless movers can be moved highly dynamically at up to 4 m/s on an almost arbitrary and flexible path. The compact XTS revolutionizes drive technology and enables completely new, space-saving machine concepts.

XTS is a mechatronic system with only a few different components containing all functions necessary for operation:

- A modular, fully integrated linear motor with power electronics and displacement measurement in one device.
- One or more movers as moveable parts.
- A mechanical guide rail system.
- An Industrial PC with the TwinCAT control software

The desired geometries, lengths and radii of the drive system are formed by the number and choice of the components. Complex cabling and drag chains are no longer required. In addition, the position measurement system is already integrated.

XTS enables maximum utilization of the machine footprint, since the circular movement utilizes travel in both directions as well as along curves for active material transport. In this way you save not only hardware, but also expensive production space. Maximum positioning accuracy is achieved at speeds of up to 4 m/s.

All XTS components are developed and produced in Germany. In combination PC-based Control technology with TwinCAT automation software, it offers a complete drive solution around which machine mechanics that can be built for high speed performance.

## The new linear motor principle

There are virtually no limits to the possibilities of use of XTS:

- The movers can accelerate, brake, position and synchronize.
- They can take up absolute positions relative to each other.
- They can group themselves and accumulate.
- They can create clamping forces in motion.
- They can travel through curves as fast as along straights.
- They can recover energy through regenerative braking and utilize both travel directions for transport purposes.

And all of that with precise position control, without oscillations, without backlash, without material fatigue, virtually without wear – and without cost-intensive maintenance.

## This new linear motor principle gives rise to completely new possibilities in drive technology:

- Linear motor characteristics on an endless path.
- Any desired number of movers on a common path.
- Modular structure, simple adaptation to the application.
- Low spatial and power requirements.
- Simple implementation of demanding transport tasks.
- Low project engineering and assembly expenditure.

## The XTS system components

The XTS system is simple and modularly configurable: The motor modules form a unit with the movers and guide rails. They contain the electromagnetic coils and all other active functions necessary for the operation of the system.

## The XTS motor module

The fully integrated linear motor with power electronics and displacement measurement represents a mechatronic unit. It contains the electromagnetic coils and all other active functions necessary for the operation of the system. Only a power supply and an EtherCAT connection are required. No control cabinet is required. The motor module contains no moving parts and is therefore not subject to any wear. The coil arrangement and the mechanical configuration are ready for use. The power electronics are optimized for the XTS requirements. Integration of displacement measurement eliminates the need for additional installation and the calibration. Tolerances are compensated automatically. XTS uses a double air gap linear motor. Magnets are positioned above a coil package on opposite sides. The high attraction forces of the magnets cancel each other, which mean that only low resultant forces act on the mechanical bearings.

## The XTS guide rail

The rail system can be extended with straight and curved sections as required. The desired geometries, lengths and radii are formed by the number and choice of the components. In combination with the contact surface of the mover rollers, the system results in good running characteristics and low wear. Lubrication of the system is not necessary. The guide rail system is optimized for instant installation on the motor module. Minimum manufacturing tolerance and pre-stressed rollers ensure a zero backlash. The guide rails have no joints and are available in lengths of up to 6 m. Fittings ensure high-precision mounting.

## The XTS mover

The mover contains magnetic plates which, together with the coils of the motor module, generate a controlled driving force. The mover absorbs the attraction forces of the magnets on both sides and largely compensates them vis-à-vis the guide mechanism. This enables the rollers of the mover to run at high-speed in the guide rail with low wear. The rollers are equipped with a particularly robust plastic contact surface,



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resulting in low friction losses. The tensioning of the rollers prevents backlash and is at the same time designed for low wear. The service life of the rollers depends on the payload. A mechanically robust encoder flag transfers the position signal to the motor module. The mover is entirely passive. There are no sliding contacts or cables to the moving part. With a weight of less than 350g, the mover is exceptionally light. Its short length enables a product distance of up to 50 mm. The geometry of the guide rails allows driving through curves with full dynamics. There is no heat generation at or in the mover.

#### Multiple benefits and advantages through XTS

##### Absolutely precise configuration

XTS precisely adapts to the respective requirements: The arbitrary number of movers, the modular path guidance, the individual controllability of each mover and the ease of integration in existing machines and systems ensure tailored solutions for optimizing the production efficiency of the machine.

##### Increased production speed

Speeds of up to 4 m/s can be achieved with XTS – without jerking and with maximum positioning accuracy. Synchronization, stopping and starting can be accomplished at any of the stations on the entire path. Added to this is a sensitive response; jerk-free acceleration profiles even allow the transport of open containers holding liquids. Even if stopping and restarting are necessary at workstations, the flow of product is retained.

##### Reduced installation volume

XTS enables the machine volume to be fully utilized, since the outward and return path as well as the curves can be used for the active material transport. In this way you save not only hardware, but also expensive production space. Power electronics, displacement measurement, primary motor part and the mounting surfaces are integrated in a single component. Therefore, all the prerequisites for compact and cost-effective machine construction are met.

##### Low wear, less required maintenance

The use of XTS leads to less mechanical wear, since only the mover needs mechanical bearings. Gears, belts, guide rollers and clamps are no longer necessary. Due to the high positioning accuracy, the compensation of inaccuracies as required in common transport solutions is unnecessary: there is no stretching of chains due to load and wear, re-tensioning of toothed belts or mechanical backlash during load changes. Apart from the payload, only the small mass of the mover (< 350 g) is moved.

##### Fast, flexible format adaptation

Versatile format adaptation is a significant benefit, particularly in the packaging industry: During a product changeover or change in filling quantity, for example, the format can be changed without production stop. Modifications are realized by changing the software parameters. Empirical values can be stored as parameter sets and retrieved at any time. The parameters can be exchanged between applications of the same type. In many cases mechanical adjustment can be omitted when commissioning.

##### Peak forces and high acceleration

The fast signal processing and the high bandwidth of EtherCAT, the fast real-time Ethernet fieldbus, enables the best dynamic characteristics. Together with large peak forces, high acceleration is available to the application. Position lag monitoring avoids damage to the product in case of mechanical malfunctions. In addition, force limitation and jerk reduction allow the optimal handling of the product at all times and at different points in the production. For example, the parameters can be adapted according to the filling level while moving.

##### Lower mass, increased safety

Small masses lead to a low hazard potential. In contrast to the XTS system, a conveyor chain has to be kept moving by a central drive. Therefore, the total force is as large as all the necessary individual forces along the entire length. It follows that the total force can take effect at a single point in the event of an error, a mechanical fault or manual intervention in the process. With XTS this risk can be significantly minimized and safety can

be increased, since in most cases only the parameterized force of a mover acts. As a result, even in the case of a collision with an obstacle, only the mass of a mover with its payload acts.

##### Application areas for XTS

XTS can be used in many different ways in the most diverse industries. It is ideal for high-speed material handling: push product, adapt product spacing, reduce or increase product speed clamp and move product transport and discharge product manipulate product: lift out, close, rotate, screw cap on. An irregular product flow is isolated and transferred at a constant interval and constant speed to the next workstation. Products are picked up and transported from one workstation to the next. If the tracks between stations are free, the products are moved with high-speed. Otherwise, the products approach the target in a moving buffer. At slow processing stations the products can be processed in parallel groups. Fast stations process one product at a time. The return movement can always be used actively.

##### The basic XTS functions

The XTS system offers a new class of functions which enable the realization of new, particularly versatile transport and positioning tasks in a cost-effective manner.

**Free mobility of the mover:** Free movement of one or several movers. The mover can move freely along the whole track, i.e. it can brake & accelerate; position and exert a constant force at standstill and in motion. Like every linear motor, the mover can synchronize itself to other movements, but without cables on the moving carriage, thus offering the maximum possible flexibility. When arranged in a circle, the movers can drive endlessly and follow product flow. They do not have to be moved backwards against the flow.

**Synchronous movement of a group:** Free mobility of several movers. All movers can be moved independently and positioned at absolute positions along the whole track. In addition, they can be moved relative to each other and always avoid a collision with their 'neighbour'. The movers can automatically accumulate themselves, thus representing a moved buffer from which a moved destination can be approached with very high dynamics.

**Movements with constant force:** Synchronous movement of a group. In the running movement groups can be formed that stop together or drive past processing stations with a specified speed profile. This formation is supported any desired number of times on the path. The size of the group (number and spacing) can be changed dynamically.

**Constant force:** A mover follows another with a defined force. It can apply a 'clamping force' while at the same time following a movement, in order to hold a product, for example. For other applications the force can be limited, in order to avoid unnecessary load on a product under all conditions. Acceleration and centrifugal forces can also be limited, in order to enable the transport of liquids in open containers, for example.

**Unrestricted curve function:** The total travel distance becomes the utilizable path. Outward path, return path and the curves are available for material transport and processing. This results in very compact application solutions that make completely new machine concepts possible.

**Arbitrary number of movers:** There are no system limits for the number of movers; the number can be optimally adapted to the application. In practice, the number is limited only by the available computing power of the PC.

**Arbitrary system length:** There are no length restrictions for the entire path. 10 m and much more are technically possible. Individual energizing of coils generates a travelling magnetic field, which moves the permanent magnets of the mover along with it. The controlled current intensity through the coils adapts itself to the force requirement of the mover. **PPP**



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# Improving energy efficiency for clean room ventilation systems

Clean rooms are required in the pharmaceutical, food, electronics, and workshop industries. Cleanroom ventilation systems (HVAC systems) are used to maintain particle levels and product critical parameters, such as temperature and humidity, defined for cleanliness classes 1–9 according to ISO 14644. HVAC systems control air flows between different rooms by means of pressure differentials, which ensure that air flows from cleaner areas to less clean areas. The pressure differential applied between different cleanliness classes is usually 15...20 Pa. Pharmaceutical clean rooms are subject to Good Manufacturing Practice (GMP) legislation. Internationally, the European Union GMP and the US Food and Drug Administration's (FDA) cGMP are adhered to. This article focuses in particular on pharmaceutical HVAC systems and related energy efficiency.

Air change rates (ACH) in cleanrooms differ substantially from air change rates in so-called comfort ventilation systems. The air change rates of clean room HVAC systems vary between 10...700 ACH, whereas the air change rates in comfort HVAC systems are between 0.5...10 ACH. This relationship between air change rates highlights the magnitude of energy consumption for clean room HVAC systems. In a clean room HVAC system, air is processed to meet the regulatory requirements for cleanliness, temperature, and relative humidity. Two main types of clean room HVAC systems can be differentiated: fresh air and re-circulated air systems. (See figures 1 and 2 on pg. 30)

Clean room HVAC systems that use only fresh air are utilised where materials hazardous to health and / or the environment are handled, where there is risk for cross-contamination despite proper filtering, or where there is an explosion hazard. A recirculated air system can be used, when none of the afore-mentioned risks are present. Generally, the use of re-circulated air is maximised, because it has indisputable benefits, such as heat recovery and humidification energy.

## Reducing the impact on the environment

Energy efficiency requirements for clean room HVAC systems are continuously escalating. Pharmaceutical industry energy costs are, however, not that significant compared to the pharmaceutical batches sold. According to an American study in 2008, based on 2002 figures, the energy costs for each one billion USD worth of pharmaceuticals was approximately 6.6 million USD (Source: Energy Efficiency Improvement and Cost Savings Opportunities for the Pharmaceutical Industry. 2008. Ernest Orlando Lawrence Berkeley National Laboratory. California USA).

The pharmaceutical industry strives to provide people with good health and an enhanced quality of life. It is, therefore, important that it acts in an environmentally sound manner by reducing pollutions to air, ground, and water. The significance of ventilation systems and clean room HVAC systems in the total pharmaceutical industry energy consumption should

not be underestimated. Table 1 shows the distribution of the total energy consumption in a typical pharmaceutical plant in the USA.

According to the study ventilation systems account for 65% of total energy consumption. The energy consumption and related costs for a typical clean room in the USA are detailed in figures 3 and 4 on pg. 31. Figure 3 shows the distribution of energy consumption and figure 4 the related costs (source: Ernest Orlando Lawrence Berkeley National Laboratory. California, USA).

Pharmaceutical industries in western countries strive to apply energy efficiency requirements according to LEED and BREEAM International classifications, when building new facilities or renovating facilities. LEED is the American classification and BREEAM International originated in Europe. The classifications are complemented with national energy efficiency requirements.

## Improving HVAC energy efficiency

The energy efficiency of pharmaceutical clean room HVAC systems can be enhanced through professional design. Energy efficiency is an attitude, which is adopted via determined guidance and training. The dimensioning of a clean room HVAC system is defined by the required amount of air changes and the overall amount of air. The air change rate for a certain cleanliness class is determined either by the empirical ACH or the ACH based on the heat load, which is calculated from the allowed temperature difference between the incoming and exhaust air flows. This is usually the restraining factor.

The required heating, cooling, and humidification effect is calculated based on the outdoor climate and the amount of air handled. The dimensioning of the air handling units, ducts, and air devices in clean room HVAC systems is defined by the amount of air used and acceptable pressure losses and sound levels. A starting point for improving clean room HVAC



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Table 1. The distribution of the total energy consumption in a pharmaceutical plant (Source: Energy Efficiency Improvement and Cost Savings Opportunities for the Pharmaceutical Industry, 2008. Ernest Orlando Lawrence Berkeley National Laboratory, California, USA)

	Overall	Plug loads and processes	Lighting	Heating, ventilation and air conditioning (HVAC)
<b>Total</b>	100%	25%	10%	65%
<b>R&amp;D</b>	30%	Microscopes, Centrifuges, Electric mixers, Analysis equipment, Sterilization processes, incubators, Walk in/reach in, (refrigeration)	Task and overhead lighting	Ventilation for clean rooms and fume hoods, Areas requiring 100% make-up air, Chilled water, Hot water and steam
<b>Offices</b>	10%	Office equipment including computers, fax machines, photocopiers, printers, Water heating (9%)*	Task, overhead and outdoor lighting	Space heating (25%)* Cooling (9%)* Ventilation (5%)*
<b>Bulk Manufacturing</b>	35%	Centrifuges, Sterilization processes, Incubators, Dryers, Separation processes	Task and overhead lighting	Ventilation for clean rooms and fume hoods, Areas requiring 100% make-up air, Chilled water, Hot water and steam
<b>Formulation, Packaging &amp; Filling</b>	15%	Mixers, Motors	Mostly overhead, some task	Particle control ventilation
<b>Warehouses</b>	5%	Forklifts Water heating (5%)*	Mostly overhead lighting	Space heating (41%)* Refrigeration (4%)*
<b>Miscellaneous</b>	5%		Overhead	

\*Percentages for water heating, space heating, cooling, refrigeration and ventilation are derived from the U.S. DOE's Commercial Building Energy Consumption Survey (CBECS) for commercial office or warehouse buildings (U.S. DOE 1999). These figures are only shown as first approximations and in reality vary from facility to facility.

- Mezzanine areas above cleanrooms are ideal for HVAC installations.



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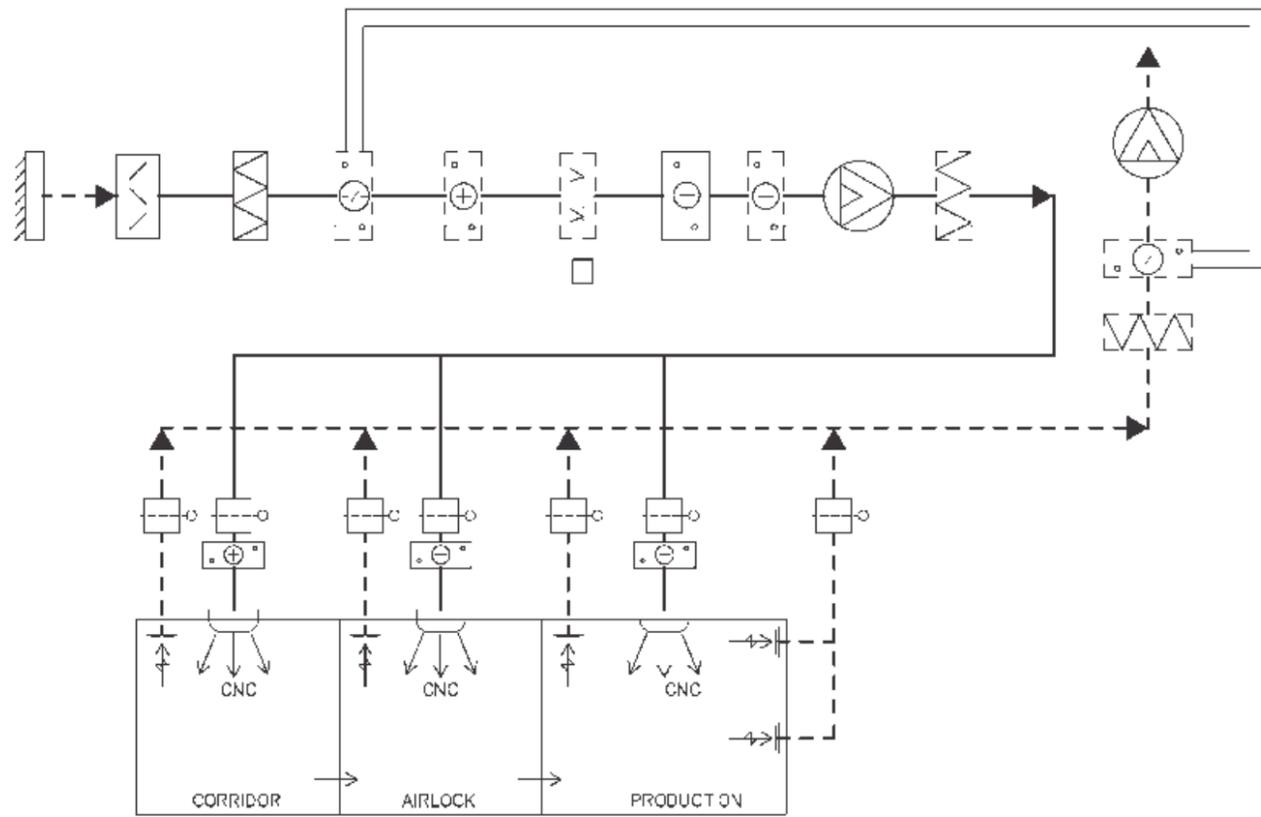


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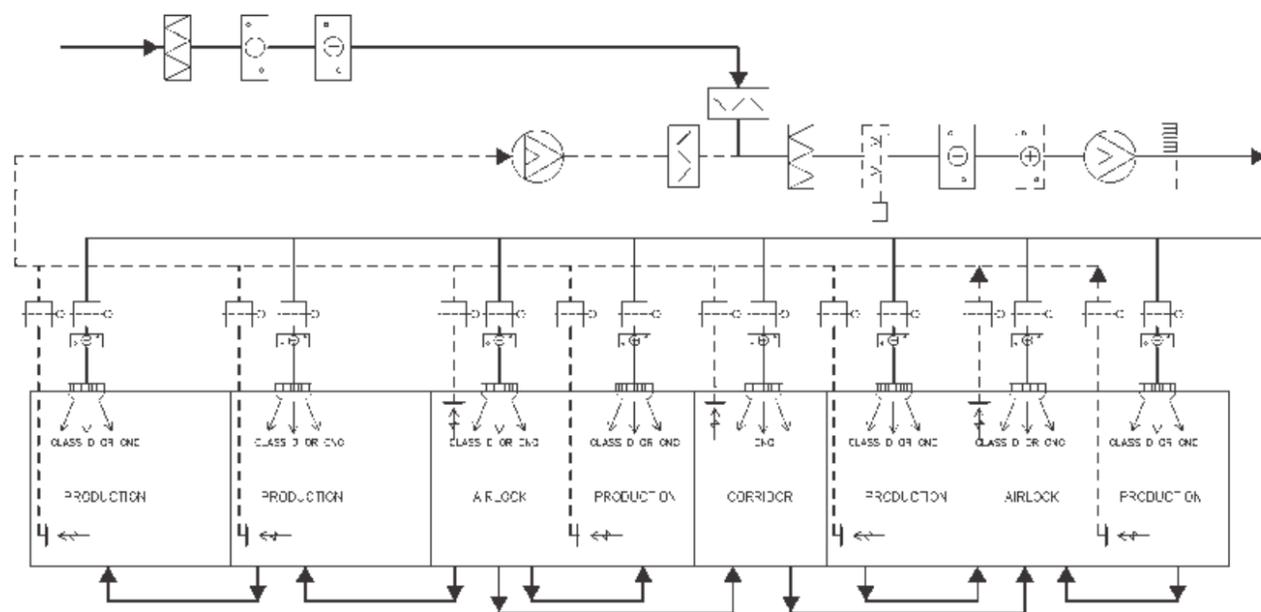
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▼ Figure 1. A cleanroom HVAC system that uses 100% fresh air.



▼ Figure 2. A re-circulated air system that uses 20% fresh air and 80% re-circulated air.



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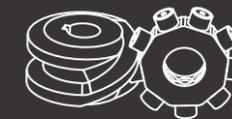
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- ➔ Intermittent linear
- ➔ Rotary oscillating
- ➔ Pick-n-place

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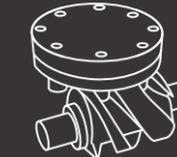
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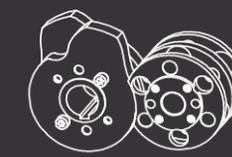
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system is defined by the required amount of air changes and the overall amount of air. The air change rate for a certain cleanliness class is determined either by the empirical ACH or the ACH based on the heat load, which is calculated from the allowed temperature difference between the incoming and exhaust air flows. This is usually the restraining factor. The required heating, cooling, and humidification effect is calculated based on the outdoor climate and the amount of air handled. The dimensioning of the air handling units, ducts, and air devices in clean room HVAC systems is defined by the amount of air used and acceptable pressure losses and sound levels. A starting point for improving clean room HVAC system energy efficiency is drawing up a User Requirement Specification, after which the requirements are transferred to system-specific Technical Specifications. There are several measures that can be taken to improve the energy efficiency of pharmaceutical clean room HVAC systems.

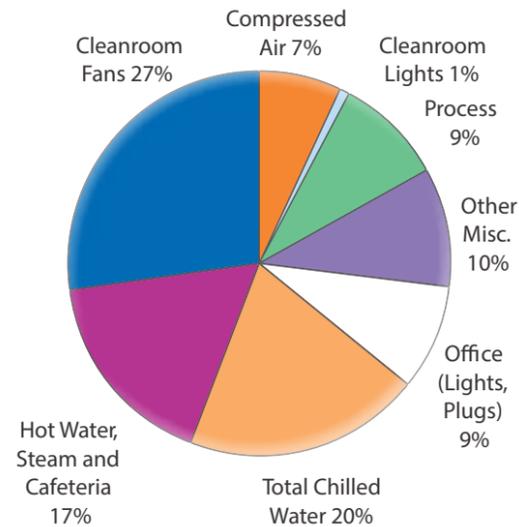
These include optimising product-critical parameters, controlling internal heat loads, optimising ACHs, maximising utilisation of recirculated air and heat recovery, hours of operation, optimising filter stages and air handling units, improving dimensioning of ducts and

devices, as well as adhering to the tightness requirements of the air handling units, ducts and devices.

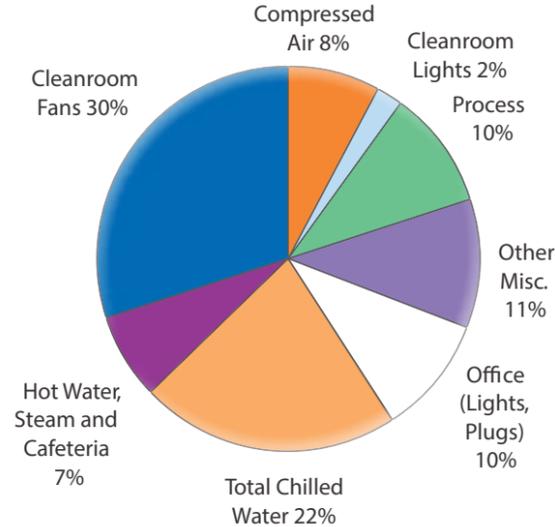
**Achieving a good result**

Correctly documented requirements for energy-improving measures do not guarantee a successful end result. A good result is achieved by the correct selection of contractors/suppliers. In making the selection it is important to ensure the existence of suitable references and verifying the skills and experience of persons responsible for execution. GMP-level cleanliness is an attitude and so is energy efficiency. The design and construction of an energy efficient pharmaceutical clean room HVAC system is a demanding task. It combines GEP (Good Engineering Practice), GMP, BSL (Bio Safety Level), ATEX, national building regulations, national energy efficiency requirements, and LEED or BREEAM International requirements. This places a great deal of responsibility on the designer. The future will bring increasingly strict requirements for the energy efficiency of pharmaceutical clean room HVAC systems. Designers should, however, keep in mind that GMP or BSL or a combination of these override any other factors.

**Figure 3. Distribution of energy consumption in a clean room (source: Ernest Orlando Lawrence Berkeley National Laboratory, California, USA)**



**Figure 4. Distribution of energy costs in a Clean room (source: Ernest Orlando Lawrence Berkeley National Laboratory, California, USA)**



**Written by : Elomatic**

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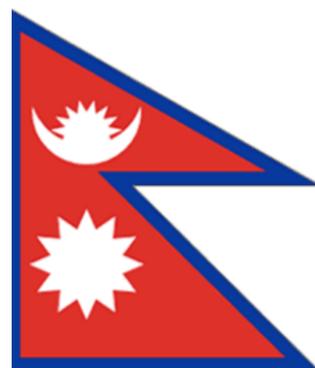
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# Nepal pharma industry gets ready to eye the world



**Mr. Deepak Prasad Dahal**

General Secretary

Association of Pharmaceutical Producers of Nepal (APPON)

APPON (Association of Pharmaceutical Producers of Nepal) was established in the year 1990 by pharmaceutical entrepreneurs with an aim to facilitate, enhance and improve the service of the pharmaceutical companies in coordination with different government bodies, medical fraternity and pharmaceutical business houses. Today, it has 45 pharmaceutical companies as its members, who command 40% of the Nepalese pharmaceutical market share. Thirty four of these companies are certified with WHO-GMP.

From the day of its establishment, APPON is driving towards its cherished destination to produce safe, efficacious and economical products with high quality to serve the health sector of Nepal. To promote the Nepalese pharmaceutical companies in the global market it is also extending its fullest support for export. APPON is also helping the pharmaceutical industry in getting support on the technical and technological advancement fronts which ultimately will push the development of health sector of Nepal.

The 45 pharma companies are producing a range of products both for human beings as well as veterinary products. Already Nepal is self sufficient in 77 different products. Nepal pharma companies are manufacturing mostly oral dosage form like tablets, capsules, powder, oral liquids and suspensions.

The Nepalese pharma industry is sensitive regarding the quality of its products and that is the reason why almost all the manufacturing facilities have their own laboratories having the latest equipments and gadgets. I am indeed proud and happy to say that our products have the inherent strength and capability to meet global levels.

Recently Nepal has started exports to some African countries and is now trying for exports to other countries also. But India continues to remain the focus country with most of the Nepalese exports coming to India. Nepal's pharma industry has a rich and beneficial association with India. Nearly 99% of the pharma machinery used by Nepal's pharma industry is sourced from India. Secondly 50% of the raw material used by Nepal's pharma industry also comes from India and 90% of the packaging material used by Nepal is supplied by Indian suppliers.

Nepal's pharma industry patronises the Indian pharma machinery manufacturers for many reasons. The first and foremost reason is that we get very good support from Indian machinery manufacturers. From technical support to after sales service – Indian machinery manufacturers are always there to listen to us and bring about a solution to our problems. Recently some of our friends brought machinery from China. The Chinese machinery is also good but unfortunately there is no support and neither there is any after sales service.

Also Indian machinery is cost effective and we can have Indian machinery in every sector and segment. So we are using 99% of our machinery requirements are met by Indian machinery manufacturers. This is the reasons why we don't want to bring machinery from China, Korea, Taiwan or Europe. One should also remember that Indian machines are value for money machines. The European and American machines may be top

class but these machines are prohibitively expensive.

Nepal's pharma industry has gradually started to develop a vision wherein there are possibilities and chances of tie-ups and technology transfers. This would go a long way in boosting the already bright future of Nepal's pharmaceutical industry. Joint ventures and tie-ups with multi nationals would result in streamlining of processes, introduction to modern and latest technologies and production processes. This is a possibility. But we also have to remember that Nepal's economy is import based economy and there are laws and acts governing the pharma industry. These laws and acts were enacted in 1978 and are still in force. But at that time the situation was totally different then what it is today. In the seventies, the government thought of giving priority to import of medicines and not to manufacturing. But international tie-ups and joint ventures would pave open the way for new opportunities in manufacturing of formulations. Also such ventures would be of great help to the Nepalese industry in increasing the overall strength of the companies alongwith increase in volumes and production capacity. Issues like quality control will also get a major boost.

Nepal is a part of LDC (Least Developed Countries) as per the World Trade Organisation's Doha Declaration of 2002. All LDCs are allowed to manufacture all the patented drugs till 2016. Bangladesh is the only LDC that has taken the fullest advantage of the LDC status. Many multinational companies have set up plants in Bangladesh and handsome income generated from exports ultimately is the foreign exchange revenue for the state exchequer.

It is here that I underline the need for more government support and encouragement to Nepal's pharma industry. Pharma clusters like the clusters promoted in India could be set up. 50%, 80% or 100% export oriented units could also be set up. We have been representing this to the Nepalese government for quite some time. This again would go a long way in helping Nepal's pharma sector. Take the examples of Pfizer and SKF. They may be in Switzerland. But they have plants in Bangladesh manufacturing patented drugs. Even Indian company like Sun Pharmaceuticals has a company by the name of Sun Pharmaceuticals Bangladesh Ltd which manufactures in Bangladesh and exports across the world. All stake holders including the Bangladesh government have a win-win situation as the revenue flows in dollars.

APPON has represented this to the government. But the government has put some conditions. The government has said Nepal's pharma industry can bring partners from India or any other part of the world. But 80% of the produce will have to be exported. Also APPON has chalked out a 15-year perspective plan to guide the pharma industry in the coming days. We are also working towards making our government understand the benefits of opting for enhanced and latest technology and how Nepal could benefit from its LCD status.

Our new health minister is a very energetic and supportive person. And he himself asked if we come up with a good plan he will go all out to support us. APPON believes that the future holds good and I am also sure we will be able to deliver the goods.

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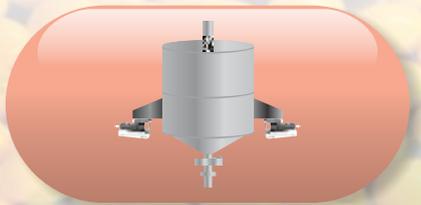
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